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ABSTRACT

Compiled are abstracts and indexes to selected print and non-print materials related to wastewater treatment and water quality education and instruction, as well as materials related to pesticides, hazardous wastes, and public participation. Sources of abstracted/indexed materials include all levels of government, private concerns, and educational institutions. Title, author(s), publication date, cross-references, descriptors, and availability are provided for each entry. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements of their programs. This publication supplements and does not replace "Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources" or IRIS Supplements I-XVI. (JN)

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Water

Water Quality Instructional Resources Information System

WATER QUALITY INSTRUCTIONAL
RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts
to Water Quality and Water
Resources Materials

Supplement XVII (1984)
March, 1984

SE044 707

Prepared by

EPA Instructional Resources Center
SMEAC Information Reference Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

as part of
Grant No. T-901366010

WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement XVII (1984)
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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

EPA Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 422-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The EPA Instructional Resources Center (water) acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the EPA Instructional Resources Center is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

EPA Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this compilation, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EPA Instructional Resources Center at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of this compilation and similar ones to follow and (2) by computer.

The first compilation contained resumes of selected materials processed for the previous IRIS (water) collection and resumes of selected materials of items added to the IRIS (water) collection. Copies are available for purchase from the EPA Instructional Resources Center for $5.00.

Quarterly updates of the compilation are available by subscription on a yearly basis beginning November, 1979. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EPA Instructional Resources Center. A subscription to the quarterly supplements for 1984 is $12.00 (within the U.S.). Price to Canada and Mexico is $14.00. Prices in other Countries is $18.00. Separate quarterly supplements are $4.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched by both batch and on-line computer searches. The IRIS tapes are available for searching through Dialog and will be available through CompuServe. Any search service that currently subscribes to Dialog is able to search the IRIS database by on-line techniques. Individuals or agencies with computer terminals and telephone connection equipment can subscribe to Dialog or CompuServe and do their own searches if they desire.

Information regarding Dialog may be obtained by writing or phoning Dialog Information Retrieval Service, 3460 Hillview Avenue, Palo Alto, CA 94304, (415) 858-3775.

Information regarding CompuServe can be obtained from the EPA/IRC.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not, contact the EPA Instructional Resources Center for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but most users of the tapes gain access to them through two major database vendors: Dialog and Systems Development Corporation (Orbit). For the addresses of search services in your state that can search these databases, contact the:

EPA Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 422-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EPA Instructional Resources Center for $0.06 per page plus $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EPA Instructional Resources Center.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. Current prices are $8.00 per article and $10.00 for articles dated prior to January 1981. For further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered into ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

a. IRIS NUMBER: EW006023
b. PUBLICATION DATE: FEB 81
c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES

f. DESCRIPTIVE NOTE: 30-33P.
g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2

a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

b. PUBLICATION DATE -- date material was published according to information on the material.

c. TITLE

d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceeded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed. The price of the material quoted is the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained.

2. Sample resume of material entered into ERIC (Resources in Education)

Items entered into ERIC (Resources in Education) will have a few additional data fields.

IRIS ACCESSION NUMBER: EW006664
PUBLICATION DATE: 80
TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

b. DESCRIPTIVE NOTE: EDRS PRICE: MF01 PLUS POSTAGE-NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF
a. WATERSHED LANDS. (ED 197 941)

AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, P. O. BOX 190, ARLINGTON, VA 22210

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
P. O. Box 190
Arlington, Virginia 22210
(703) 823-0500

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EPA Instructional Resources Center.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index or Author Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to Laboratory Techniques and to Wastewater Treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence, they are not listed in this index.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EPA Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 422-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the sources to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about six times a year as information is available.

If you are not on the mailing list write to the EPA Instructional Resources Center. Limited numbers of some back issues are still available.

If you need information about IRIS you can also phone (614) 422-6717 with your questions.

V. Requests for Assistance in Using IRIS

A. Assistance in use of IRIS manuals
If you need help in using the IRIS manuals, phone (614) 422-6717 or write to the EPA Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

B. Assistance in accessing IRIS by computer

1. Conducting searches.

   See section VIII.

2. Subscribing to Dialog for computer searching of IRIS.

   Contact: Dialog Information Retrieval Service
   3460 Hillview Avenue
   Palo Alto, California 94304
   (415) 858-3775

3. Contacting a computer search service (an agency that will conduct a search for you, usually for a fee.)

   The EPA Instructional Resources Center maintains a list of agencies that can conduct searches. Most charge a fee, though some are free to qualified users in a limited geographical area.

   Phone or write to obtain information for your area.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EPA Instructional Resources Center plans to develop some user service products in selected areas in 1982.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
The Ohio State University
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabilitation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings, theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary and Early Childhood Education
University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Library, Room 108
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration, preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, NW, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Huntington Hall
150 Marshall Street
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California at Los Angeles (UCLA)
Mathematical Sciences Building, Room 8118
405 Hilgard Avenue
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
3520 Prospect Street, NW
Washington, DC 20007
Telephone: (202) 298-9292

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English and speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teacher of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics and Environmental Education
The Ohio State University
1200 Chambers Road - Room 310
Columbus, Ohio 43212
Telephone: (614) 422-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
Social Science Education Consortium, Inc.
855 Broadway
Boulder, Colorado 80302
Telephone: (303) 492-8434

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education (AACTE)
One Dupont Circle, NW, Suite 610
Washington, DC 20036
Telephone: (202) 293-2450

School personnel at all levels, all issues from selection through preservice and inservice preparation and training to retirement; curricula, educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service (ETS)
Rosedale Road
Princeton, New Jersey 08541
Telephone: (609) 734-5176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects of programs.

P. ERIC Clearinghouse on Urban Education
Teachers College, Columbia University
Institute for Urban and Minority Education
Box 40
525 West 120th Street
New York, New York 10027
Telephone: (212) 678-3433

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences), education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics, structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Central ERIC
National Institute of Education (NIE)
Information Resources Division
1200 - 19th Street, NW
Washington, DC 20208
Telephone: (202) 254-5500

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Structure a Computer Search of IRIS

This explanation relates to the IRIS data base that can be searched on-line through Bibliographic Retrieval Services, Inc. or Dialog. As IRIS becomes available through other sources, information relevant to those services will be provided.

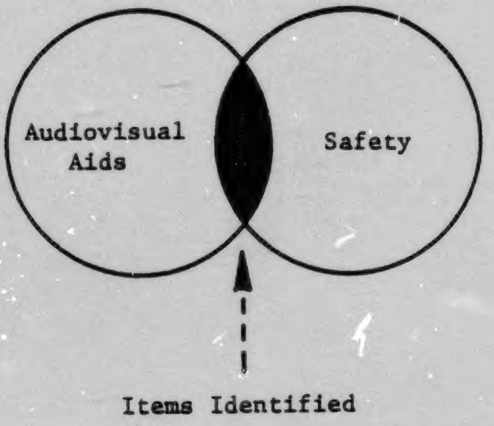
A few notes about the service are important. The following fields are searchable by computer: (1) IRIS Accession Number (EW Number), (2) ERIC Accession Number (ED Number), (3) Authors, (4) Institution, (5) Title, (6) Subject index terms, and (7) Abstracts.

If you submit a search of IRIS through Dialog, the program will search for the words you select in three fields unless the searcher requests to limit the search. These fields are: (1) title field, (2) subject index field, and (3) abstract. We recommend you use this feature especially for searches on specific terms. If you find more material than you want by this techniqu, you can narrow the search to items that may have the most information on the topic by limiting the search to the subject index field.

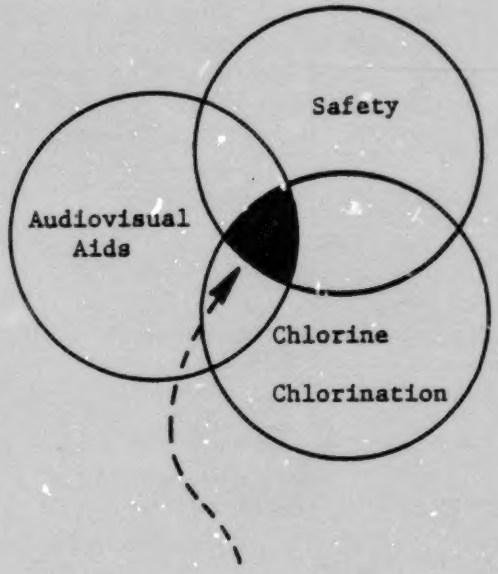
Several sample searches are listed below and on the following pages.

A. Sample 1

If you want to locate audiovisual aids that relate to safety you would submit a search with audiovisual aids and safety. Materials that included the terms both audiovisual aids and safety in the title field, the abstract and the subject index field would be identified by computer.



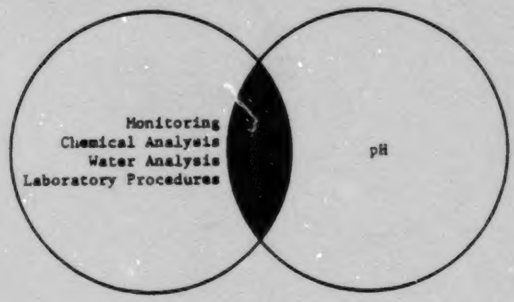
The computer program can tell you the number of items, the title of the items, or print the entire resume of each item. If you were primarily interested in audiovisual aids, safety, and chlorine you would submit a search of these three terms. You might want to include chlorides and chlorination as well as chlorine in the search. This search would identify materials that contained audiovisual aids, safety, and one or more of the words, chlorine and chlorination.


Safety
Audiovisual Aids
Chlorine
Chlorination

Items Identified

B. Sample 2

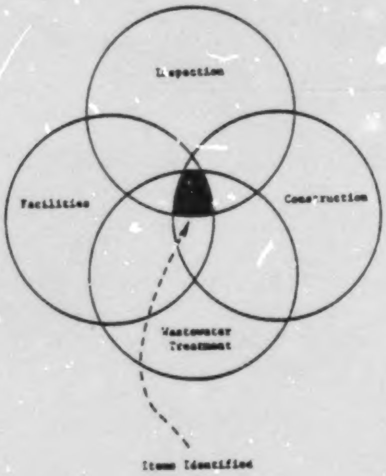
If you want to identify materials related to monitoring, you should include several related terms and the chemical, material, or situation that is being monitored. See the example below.


Monitoring
Chemical Analysis
Water Analysis
Laboratory Procedures
pH

This search would identify all the items that included any of the terms on the left and pH.

C. Sample 3

If you are interested in materials related to inspection and construction you could conduct a search of these two terms. The search would identify all materials that included both terms. If you were interested in only wastewater treatment facilities you could construct a search as diagrammed.



This search would yield specific materials and demonstrates how a computer search can help you locate materials you want.

The subject index can also be used to help you select words to include in a search. Words listed in the subject index are certain to be in the searchable fields. Therefore, selecting these terms to use in structuring a search will increase the probability of locating materials. Some words will appear in the title or abstract that are not included in the subject term field. Such words can be used to check if any materials are in the data base. If, however, you conduct a search with such a word it is usually best to include a synonym that is in the subject index.

VIII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on loan or purchased from the EPA Instructional Resources Center. Most items previously available from the NTOTC office are available from the EPA Instructional Resources Center at The Ohio State University. For further information write or call.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
P. O. Box 190
Arlington, Virginia 22210
(703) 823-0500

C. The EPA Instructional Resources Center will provide Xerox copies of materials that are not copyrighted for $1.00 per document plus $0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EPA Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

RESUME SECTION

IRIS ACCESSION NUMBER: EW009267

TITLE: PRIMARY TREATMENT.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BLUE PLAINS WASTEWATER TREATMENT FACILITY; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PRIMARY TREATMENT; *PROGRAM DESCRIPTIONS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; 10 MINUTE COLOR 3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: OPENING WITH AN AERIAL VIEW OF THE BLUE PLAINS WASTE TREATMENT FACILITY, THIS TAPE GIVES A BRIEF HISTORY OF THE PLANT AND THEN SHOWS AND DESCRIBES THE STEPS IN THE PRIMARY TREATMENT PROCESS. THE NARRATION IS CLEAR AND WELL PACED AND COMMUNICATES A GENUINE INTEREST IN AND CONCERN ABOUT THE PROCESSES DESCRIBED. PICTURES CORRELATE WITH SCRIPT AND CLEARLY SHOW WHAT THE NARRATION DESCRIBES.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW009268

TITLE: WASTEWATER TREATMENT PLANT LABORATORY PRACTICES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LABORATORIES; *LABORATORY PROCEDURES; *FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; 19 MINUTE COLOR 3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: THE ROLE OF THE LABORATORY IN RELATION TO THE BLUE PLAINS WASTE TREATMENT FACILITY IS CAREFULLY EXPLAINED. A NUMBER OF THE TESTS AND TESTING DEVICES ARE SHOWN AND EXPLAINED, AND THE REASON FOR EACH TEST IS GIVEN. THE RELATIONSHIP BETWEEN THE TREATMENT PLANT, THE LAB, AND THE EPA IS ALSO MENTIONED.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW009269

TITLE: SOLIDS PROCESSING-PART 1.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BLUE PLAINS WASTEWATER TREATMENT FACILITY; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *SLUDGE; *SOLID WASTES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; 17 MINUTE COLOR 3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: IN A FLOOD OF UNDEFINED AND SOMETIMES MISPRONOUNCED WORDS, THIS TAPE DESCRIBES AT THE GRADUATE ENGINEERING LEVEL THE PROCESSING OF SOLID WASTE IN THE BLUE PLAINS FACILITY. DURING THE TELLING, THE NARRATOR TAKES THE VIEWER AROUND MUCH OF THE PLANT, 2ND INTO A NUMBER OF THE PROCESSING UNITS. THE TAPE IS OVER-LOADED WITH GOOD INFORMATION, BUT ORGANIZATION AND DEFINITION ARE LACKING.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW009276

TITLE: SLUDGE DISPOSAL.

DESCRIPTOR: *AUDIOVISIUAL AIDS; *COMPOSTING; *COSTS; *INSTRUCTIONAL MATERIALS; LANDFILLS; *OPERATIONS (WASTEWATER); *SLUDGE; SLUDGE DISPOSAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; 10 MINUTE COLOR 3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: METHODS OF DISPOSING OF THE SOLIDS OUTPUT OF A WASTE TREATMENT PLANT ARE DISCUSSED IN THIS TAPE. TRADITIONAL LANDFILL TECHNIQUES ARE SHOWN AND LIMITATIONS ARE EXPLAINED. THE PROMISING FUTURE OF "COMPOSTING" IS SHOWN, CONTRASTING ITS SIGNIFICANTLY LOWER COST WITH THE COSTS FOR TRADITIONAL METHODS.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW009546

PUBLICATION DATE: 72

TITLE: SOMEBODY AROUND HERE MUST BE DOING SOMETHING GOOD. A DEMONSTRATION OF A NEW TECHNOLOGY FOR PHOSPHORUS REMOVAL (MPV-4).

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PHOSPHORUS; *POSTSECONDARY EDUCATION; *TECHNOLOGY; *VIDEOCASSETTES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; PURCHASE PRICE: $3/4 "@ $60; VHS @ $53 20 MINUTE COLOR 3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: DESCRIBED IS A DEMONSTRATION PROJECT IN RICHARDSON, TX. THE PRESENTATION INDICATES WASTEWATER TREATMENT PLANT CAN BE UPGRADED IN PERFORMANCE IN A SHORT TIME AND AT A MINIMAL COST TO REMOVE ADDITIONAL BOD, SUSPENDED SOLIDS AND NUTRIENTS SUCH AS PHOSPHORUS. THE TREATMENT METHODS ARE SHOWN.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

BEST COPY AVAILABLE

IRIS ACCESSION NUMBER: EW010378
TITLE: LOVE CANAL - THE ISSUES AND CONTROVERSIES.

DESCRIPTOR: *CHEMICALS; *CONTROVERSIAL ISSUES; *DISASTERS; *ECONOMICS; *LOVE CANAL; *HEALTH; *LEGISLATION; *POLICIES; *PUBLIC HEALTH; *NEW YORK; *REGULATIONS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: PURCHASE PRICE: $110.00; RENTAL PRICE $20.00 PER BOOKING. TWO-PART 35MM SLIDE/AUDIOCASSETTE PROGRAM.

ABSTRACT: THIS IS A PROGRAM ABOUT THE LOVE CANAL PROBLEM IN NIAGRA FALLS, NEW YORK. DESCRIBED ARE THE BACKGROUND OF THE LOVE CANAL SITUATION AND SOME OF THE MAJOR EVENTS THAT OCCURED IN THE ATTEMPT TO SOLVE THE HUMAN AND TECHNICAL PROBLEMS.

AVAILABILITY: MEDIA LIBRARY, EDUCATIONAL COMMUNICATIONS CENTER, 24 CAPEN HALL, STATE UNIVERSITY OF NEW YORK AT BUFFALO BUFFALO, NEW YORK 14260

IRIS ACCESSION NUMBER: EW010382

TITLE: THE OLD QUABBIN VALLEY - POLITICS AND CONFLICTS IN WATER DISTRIBUTION.

PERSONAL AUTHOR: HOTT, LAWRENCE R.

DESCRIPTOR: *POLITICS; *MASSACHUSETTS; *POLICIES; *NATIONAL PROBLEMS; *WATER DISTRIBUTION; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 30 MINUTE FILM.P. FILM RENTAL IS $50.00 FOR ONE DAY SHOWING, $25.00 EACH ADDITIONAL DAY.

ABSTRACT: THIS FILM IS CONCERNED WITH THE CONTROVERSY OF WATER RESOURCE USE. THE FILM TRACES THE HISTORY OF THE BOSTON, MASS. WATER SUPPLY, THE CONSTRUCTION OF THE QUABBIN RESERVOIR, THE PROPOSAL TO DIVERT THE CONNECTICUT RIVER, AND THE CONFLICT IN MASSACHUSETTS THAT AFFECTS POLICY DECISIONS ON WATER SUPPLY. IT HAS BEEN USED WIDELY IN NEW ENGLAND FOR PROGRAMS ON WATER RESOURCE ISSUES.

AVAILABILITY: THE OLD QUABBIN VALLEY FILM LIBRARY RENTAL DEPT., 779 SUSQUEHANNA AVE., FRANKLIN LAKES, NY 07471

IRIS ACCESSION NUMBER: EW010387

PUBLICATION DATE: 83

TITLE: LEARNING PACKAGED TO GO: A DIRECTORY AND GUIDE TO STAFF DEVELOPMENT AND TRAINING PACKAGES.

PERSONAL AUTHOR: CONROY, BARBARA

DESCRIPTOR: *AUDIOVISUAL AIDS; *DIRECTORIES; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *RECOMMENDATIONS; *STAFF DEVELOPMENT; *TRAINING; *TRAINING AIDS

DESCRIPTIVE NOTE: 224P. PRICE: $65.00.

ABSTRACT: THIS PUBLICATION PROVIDES ACCESS TO A VARIETY OF LEARNING AIDS THAT PROVIDE BOTH DEPTH AND SCOPE TO THE REPERTOIRE OF THE TRAINER, THE LEARNER, AND THE PROGRAM PLANNER. PART I PRESENTS THE ADVANTAGES AND DISADVANTAGES OF VARIOUS TYPES OF TRAINING MEDIA AND SUGGESTIONS FOR DEVELOPING YOUR OWN. PART II PROVIDES DESCRIPTIONS OF HUNDREDS OF TRAINING PACKAGES.

AVAILABILITY: ORYX PRESS, 2214 NORTH CENTRAL AT ENCANTO, PHOENIX, AZ 85004

IRIS ACCESSION NUMBER: EW010390

PUBLICATION DATE: 83

TITLE: GROUND-WATER RESOURCES OF THE UNITED STATES.

PERSONAL AUTHOR: TODD, DAVID KEITH

DESCRIPTOR: *BIBLIOGRAPHIES; *EVALUATION; *GEOLOGY; *GROUNDWATER; *HYDROLOGY; *MANAGEMENT; *SURVEYS; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 749P. PRICE: $39.00.

ABSTRACT: IN THE DECADE ENDING IN 1982 THE UNITED STATES GEOLOGICAL SURVEY UNDERTOOK TO APPRAISE THE GROUNDWATER RESOURCES OF THE UNITED STATES. THE COUNTRY WAS DIVIDED INTO TWENTY WATER RESOURCE REGIONS WITH A REPORT BEING PREPARED FOR EACH REGION. THE RESULTING SERIES OF REPORTS WAS PUBLISHED UNDER THE GENERAL TITLE SUMMARY APPRAISALS OF THE NATION'S GROUND-WATER RESOURCES AS U. S. GEOLOGICAL SURVEY PROFESSIONAL PAPERS. THESE REPORTS HAVE BEEN BROUGHT TOGETHER TO FORM THE CHAPTERS OF THIS BOOK. COLLECTIVELY, THE REGIONAL REPORTS PROVIDE A COMPREHENSIVE DESCRIPTION OF THE NATION'S UNDERGROUND WATER RESOURCES. A TYPICAL REGIONAL REPORT BEGINS WITH A DESCRIPTION OF THE AREA, INCLUDING HYDROLOGY AND GEOLOGY. THIS IS FOLLOWED BY A QUANTITATIVE EVALUATION OF THE AVAILABILITY OF GROUND WATER AND A DISCUSSION OF ITS CHEMICAL QUALITY. THE UTILIZATION OF GROUND WATER AND MANAGEMENT TECHNIQUES ARE THEN PRESENTED. FINALLY, REGIONAL PROBLEMS AND SPECIALIZED APPLICATIONS OF GROUND-WATER RESOURCES ARE DESCRIBED. EACH REPORT ENDS WITH A LIST OF REFERENCES FOR READERS WISHING MORE DETAILED INFORMATION IN A PARTICULAR LOCALITY.

AVAILABILITY: PREMIER PRESS, P.O. BOX 4428, BERKELEY, CA 94704

IRIS ACCESSION NUMBER: EW010460

PUBLICATION DATE: AUG 83

TITLE: ADDENDUM TO HANDBOOK FOR SAMPLING AND SAMPLE PRESERVATION, EPA-600/4-82-029.

DESCRIPTOR: *BIBLIOGRAPHIES; *DEFINITIONS; *AUTOMATIC SAMPLERS; *EQUIPMENT; *MANUFACTURERS; *SAMPLE PRESERVATION;

*SAMPLING PROCEDURES; *SAMPLING; *WASTEWATER; *WATER; *WATER QUALITY

DESCRIPTIVE NOTE: 28P. EPA-600/4-83-039.

ABSTRACT: THIS PUBLICATION CONTAINS UPDATED MATERIAL TO SUPPLEMENT THE MANUAL ENTITLED "HANDBOOK FOR SAMPLING AND SAMPLE PRESERVATION OF WATER AND WASTEWATER." ITEMS CHANGED WERE (1) THE DEFINITIONS OF VARIOUS SAMPLING PROCEDURES, (2) CURRENT LITERATURE REFERENCES, AND (3) TABLE 2.3 IN THE MANUAL LISTS MANUFACTURERS OF AUTOMATIC SAMPLERS.

AVAILABILITY: U.S. EPA, TECHNOLOGY TRANSFER, OFFICE OF RESEARCH AND DEVELOPMENT, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW010461

PUBLICATION DATE: SEP 83

TITLE: INNOVATIVE AND ALTERNATIVE TECHNOLOGY PROJECTS: A PROGRESS REPORT.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *DIRECTORIES; *EQUIPMENT; *FEDERAL PROGRAMS; *FACILITIES; *INNOVATIVE TECHNOLOGY; *FEDERAL FUNDING; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 36P. PRICE: $2.50.

ABSTRACT: THIS PUBLICATION PRESENTS A PROGRESS REPORT ON INNOVATIVE AND ALTERNATIVE (I/A) TECHNOLOGY WASTEWATER PROJECTS. INCLUDED IS AN OVERVIEW AND TABLES LISTING VARIOUS PROJECTS FUNDED THROUGH THE I/A PROGRAM.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010462

PUBLICATION DATE: FEB 81

TITLE: THE 1980 NEEDS SURVEY - CONVEYANCE, TREATMENT AND CONTROL OF MUNICIPAL WASTEWATER, COMBINED SEWER OVERFLOWS, AND STORMWATER RUNOFF: SUMMARIES OF TECHNICAL DATA.

DESCRIPTOR: *ADVANCED SECONDARY TREATMENT; *ADVANCED WASTEWATER TREATMENT; *EQUIPMENT; *FACILITIES; *INFILTRATION; *INFLOW; *NATIONAL SURVEYS; *NEEDS ASSESSMENT; *OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; *SEWERS; *SURVEYS; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 100P. $1.00 PER DOCUMENT PLUS $0.03 PER PAGE.

ABSTRACT: THIS REPORT IS A PART OF THE 1980 NEEDS SURVEY REPORT AND IS A SUPPLEMENT TO THE COST ESTIMATE REPORT TO CONGRESS (FRD-19), DATED FEB. 10, 1981. IT PROVIDES DETAILED SUMMARIES OF THE TECHNICAL DATA COLLECTED DURING THE SURVEY FOR CATEGORIES I THROUGH VI. A DESCRIPTION OF THE 1980 SURVEY METHODOLOGY IS INCLUDED. CATEGORIES REPORTED ARE: CATEGORY I, SECONDARY TREATMENT; CATEGORY IIA, ADVANCED SECONDARY TREATMENT; CATEGORY IIB, ADVANCED WASTEWATER TREATMENT; CATEGORY IIIA, CORRECTION OF INFILTRATION/INFLOW; CATEGORY IIIB, MAJOR REHABILITATION OF SEWERS; CATEGORY IVA, NEW COLLECTOR SEWERS; CATEGORY IVB, NEW INTERCEPTOR SEWERS; CATEGORY V, CONTROL OF COMBINED SEWER OVERFLOW; AND CATEGORY VI, TREATMENT AND/OR CONTROL OF STORMWATERS. THE SURVEY CONTAINS THE MOST COMPLETE INVENTORY OF ALL KNOWN AND PUBLICLY OWNED WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010463

PUBLICATION DATE: JUN 83

TITLE: THE 1982 NEEDS SURVEY - CONVEYANCE, TREATMENT, AND CONTROL OF MUNICIPAL WASTEWATER, COMBINED SEWER OVERFLOWS, AND STORMWATER RUNOFF: SUMMARIES OF TECHNICAL DATA.

DESCRIPTOR: *ADVANCED SECONDARY TREATMENT; *ADVANCED WASTEWATER TREATMENT; *EQUIPMENT; *FACILITIES; *INFILTRATION; *INFLOW; *NATIONAL SURVEYS; *NEEDS ASSESSMENT; *OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; *SEWERS; *SURVEYS; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 192P. $1.00 PER DOCUMENT PLUS $0.03 PER PAGE.

ABSTRACT: THIS SURVEY UPDATES EW10462. THE SURVEY CONSISTS OF INFORMATION OF ALL WASTEWATER CONVEYANCE AND TREATMENT, STORMWATER COLLECTION AND TREATMENT, AND COMBINED SEWER OVERFLOW ABATEMENT NEEDS FOR THE ENTIRE COUNTRY. THIS IS A SUPPLEMENT TO THE COST ESTIMATE REPORTED TO CONGRESS DATED DEC. 31, 1982. IT PROVIDES DETAILED SUMMARIES OF THE TECHNICAL DATA COLLECTED FOR CATEGORIES I THROUGH VI. A DESCRIPTION OF THE SURVEY METHODOLOGY IS ALSO INCLUDED. CATEGORIES INCLUDED ARE: CATEGORY I, SECONDARY TREATMENT; CATEGORY IIA, ADVANCED SECONDARY TREATMENT; CATEGORY IIB, ADVANCED TREATMENT; CATEGORY IIIA, CONNECTION OF INFILTRATION/INFLOW; CATEGORY IIIB, MAJOR REHABILITATION OF SEWERS; CATEGORY IVA, NEW COLLECTOR SEWERS; CATEGORY IVB, NEW INTERCEPTOR SEWERS; CATEGORY V, CONTROL OF COMBINED SEWER OVERFLOW; AND CATEGORY VI, TREATMENT AND/OR CONTROL OF STORMWATER.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010464

PUBLICATION DATE: JUN 77

TITLE: TRICKLING FILTER OPERATION AND MAINTENANCE MANUAL

PERSONAL AUTHOR: NELSON, DWAYNE E.; ADAMS, J. THOMAS

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *TRICKLING FILTERS; *WASTE DISPOSAL; WATER RESOURCES; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 258P.

ABSTRACT: THIS MANUAL PROVIDES THE TRICKLING FILTER OPERATOR WITH A BASIC UNDERSTANDING OF WASTEWATER TREATMENT, AND IN PARTICULAR THE OPERATION OF TRICKLING FILTERS. IT PROVIDES A COMPREHENSIVE GUIDE FOR THE OPERATOR TO FOLLOW IN NORMAL OPERATION AND MAINTENANCE PROCEDURES. THE MANUAL IS ORGANIZED TO FOLLOW THE NORMAL PATH OF WASTEWATER AS IT ENTERS THE HEAD OF A TREATMENT FACILITY AND CONTAINS CHAPTERS ON THE CHARACTERISTICS OF WASTEWATER, BACTERIOLOGY AND MICROBIOLOGY, FLOW MEASUREMENT, PRELIMINARY TREATMENT, SEDIMENTATION, TRICKLING FILTERS, DISINFECTION, ANAEROBIC DIGESTION AND SLUDGE HANDLING, SAMPLING AND LABORATORY ANALYSIS, RECORDS AND REPORTS, AND SAFETY.

AVAILABILITY: MINNESOTA POLLUTION CONTROL AGENCY, 1935 WEST COUNTY ROAD B2, ROSEVILLE, MN 55113

IRIS ACCESSION NUMBER: EW010465

PUBLICATION DATE: OCT 83

TITLE: DESIGN MANUAL - MUNICIPAL WASTEWATER STABILIZATION PONDS.

DESCRIPTOR: *COSTS; *DESIGN; *MANAGEMENT; *MANUALS; *OPERATIONS (WASTEWATER); *PROCESS DESIGN; *PLANNING; *STABILIZATION PONDS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 327P. EPA-625/1-83-015.

ABSTRACT: THIS MANUAL PROVIDES A CONCISE OVERVIEW OF WASTEWATER STABILIZATION POND SYSTEMS THROUGH DISCUSSION OF FACTORS AFFECTING TREATMENT, PROCESS DESIGN PRINCIPLES AND APPLICATIONS, ASPECTS OF PHYSICAL DESIGN AND CONSTRUCTION, SUSPENDED SOLIDS (SS) REMOVAL ALTERNATIVES, AND COST AND ENERGY REQUIREMENTS. CHAPTER 2 PROVIDES A REVIEW OF PHYSICAL AND BIOLOGICAL FACTORS ASSOCIATED WITH WASTEWATER STABILIZATION PONDS. EMPIRICAL AND RATIONAL DESIGN EQUATIONS, AND THEIR ABILITY TO PREDICT POND PERFORMANCE, ARE ALSO DISCUSSED. ACTUAL DESIGN EXAMPLES EMPLOYING THE RATIONAL EQUATIONS PRESENTED IN CHAPTER 2 ARE OUTLINED IN CHAPTER 3. THESE EXAMPLES ENCOMPASS ESSENTIALLY ALL TYPES OF WASTEWATER PONDS CURRENTLY IN USE IN THE UNITED STATES. PHYSICAL DESIGN AND CONSTRUCTION CRITERIA ARE DISCUSSED IN CHAPTER 4. THESE CRITERIA ARE VITAL TO EFFECTIVE POND PERFORMANCE REGARDLESS OF THE DESIGN EQUATION EMPLOYED AND MUST BE CONSIDERED IN FACILITY DESIGN. HIGH SS CONCENTRATIONS IN POND EFFLUENTS HAVE TRADITIONALLY REPRESENTED A MAJOR DRAWBACK TO THEIR USE. ALTERNATIVES FOR SS REMOVAL AND CONTROL ARE PRESENTED IN CHAPTER 5. CHAPTER 6 CONTAINS COST AND ENERGY REQUIREMENTS INFORMATION TO AID IN PROCESS SELECTION AND JUSTIFICATION. AN EVALUATION OF VARIOUS FACULTATIVE AND AERATED POND DESIGN METHODS IS PRESENTED IN AN APPENDIX. THIS EVALUATION WAS PERFORMED USING DATA COLLECTED ON THE FOUR FACULTATIVE AND FIVE AERATED POND SYSTEMS PRESENTED IN CHAPTER 2.

AVAILABILITY: U.S. EPA, TECHNOLOGY TRANSFER, OFFICE OF RESEARCH AND DEVELOPMENT, CENTER FOR ENVIRONMENTAL RESEARCH INFORMATION, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW010466

PUBLICATION DATE: OCT 83

TITLE: PROCESS DESIGN MANUAL - LAND APPLICATION OF MUNICIPAL SLUDGE.

DESCRIPTOR: *AGRICULTURE; *CASE STUDIES; *FORESTRY; *LAND APPLICATION; *MANAGEMENT; *PROCESS DESIGN; *OPERATIONS (WASTEWATER); *PUBLIC PARTICIPATION; *RECLAMATION; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 435P. EPA-625/1-83-016.

ABSTRACT: THIS MANUAL PRESENTS A RATIONAL PROCEDURE FOR THE DESIGN OF MUNICIPAL SLUDGE LAND APPLICATION SYSTEMS. THE UTILIZATION OF SLUDGE IN AGRICULTURE, FORESTRY, THE RECLAMATION OF DISTURBED AND MARGINAL LANDS, AND DEDICATED HIGH RATE SURFACE DISPOSAL PRACTICES ARE DISCUSSED IN DETAIL, WITH DESIGN CONCEPTS AND CRITERIA PRESENTED WHERE AVAILABLE. A TWO PHASED PLANNING APPROACH TO SITE IDENTIFICATION, EVALUATION, AND SELECTION ALONG WITH INFORMATION ON FIELD INVESTIGATIONS ARE ALSO PRESENTED. THE MANUAL INCLUDES EXAMPLES OF EACH LAND APPLICATION OPTION AND CASE STUDIES OF SLUDGE UTILIZATION IN AGRICULTURE AND FOR RECLAMATION OF DISTURBED MINING LANDS.

AVAILABILITY: U.S. EPA, TECHNOLOGY TRANSFER, MUNICIPAL ENVIRONMENTAL RESEARCH LABORATORY, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW010467

PUBLICATION DATE: SEP 83

TITLE: ACID PRECIPITATION. JUNE, 1974-SEPTEMBER, 1983 (CITATIONS FROM THE INTERNATIONAL AEROSPACE ABSTRACTS DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ACID PRECIPITATION; *ACID RAIN; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *CONTROL TECHNIQUES; *MEASUREMENT

DESCRIPTIVE NOTE: 128P. PRICE CODE: PC N01/MF N01. PB83-872408.

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE MEASUREMENT AND ANALYSIS OF ACID RAIN AND ACIDIFICATION OF AREAS BY PRECIPITATION. BOTH GLOBAL AND REGIONALIZED AREAS OF ACID RAIN EFFECTS ARE EXAMINED. CONTROL TECHNIQUES APPLICABLE TO THE SOURCES AND CAUSES ARE DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 149 CITATIONS, 34 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010468

PUBLICATION DATE: SEP 83

TITLE: ACID PRECIPITATION: EFFECTS ON THE AQUATIC ECOSYSTEM. 1977-SEPTEMBER, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ACID PRECIPITATION; *ACID RAIN; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *ENVIRONMENTAL IMPACT; *LAKES; *STREAMS

DESCRIPTIVE NOTE: 230P. PRICE CODE: PC N01/MF N01. PB83-872242.

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE EFFECT OF ACID RAIN ON LAKES AND STREAMS, AND ON THE ASSOCIATED AQUATIC PLANTS AND ANIMALS. INCLUDED ARE EXPOSURE PATHWAYS, NATURAL OR ARTIFICIAL BUFFERING, AND EFFECTS ON PRODUCTIVITY WITHIN THE AQUATIC ECOSYSTEM. (THIS UPDATED BIBLIOGRAPHY CONTAINS 242 CITATIONS, 90 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010469

PUBLICATION DATE: SEP 83

TITLE: ACID PRECIPITATION: EFFECTS ON TERRESTRIAL ECOSYSTEMS. 1976-SEPTEMBER, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ACID PRECIPITATION; *ACID RAIN; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *ENVIRONMENTAL IMPACT; *TERRESTRIAL ECOSYSTEMS

DESCRIPTIVE NOTE: 269P. PRICE CODE: PC N01/MF N01. PB83-872424.

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE EFFECT OF ACID RAIN ON TERRESTRIAL ECOSYSTEMS. INCLUDED ARE EFFECTS ON SOILS, FORESTS, AND OTHER VEGETATION. TRENDS IN GEOGRAPHICAL DISTRIBUTION OF ACID RAIN DEPOSITION ARE ALSO COVERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 274 CITATIONS, 94 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010470

TITLE: ACID PRECIPITATION: LEGAL, POLITICAL, AND HEALTH ASPECTS. 1976-SEPTEMBER, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ACID PRECIPITATION; *ACID RAIN; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *FEDERAL LEGISLATION; *HEALTH; *LEGAL ASPECTS; *LEGISLATION

DESCRIPTIVE NOTE: PRICE CODE: PC N01/MF N01. PB83-872416.

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE POLITICAL, LEGAL, AND HEALTH ASPECTS OF ACID RAIN. FEDERAL LEGISLATION AND THE CLEAN AIR ACT ARE INCLUDED. TRANSFRONTIER ASPECTS OF ACID RAIN POLLUTION ARE EXCLUDED, EXCEPT IN THOSE CITATIONS THAT COVER CONGRESSIONAL HEARINGS IN WHICH IT PERTAINS TO PROPOSED LEGISLATION. (THIS UPDATED BIBLIOGRAPHY CONTAINS 184 CITATIONS, 74 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITIO5.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010471

PUBLICATION DATE: 80

TITLE: APPROPRIATE TECHNOLOGY FOR WATER SUPPLY AND SANITATION: VOLUME 3. HEALTH ASPECTS OF EXCRETA AND SULLAGE MANAGEMENT. A STATE-OF-THE-ART REVIEW.

PERSONAL AUTHOR: FEACHEM, RICHARD G.; AND OTHERS

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *DESIGN; *DISEASES; *ECONOMICS; *PATHOGENS; *PUBLIC HEALTH; *SANITATION; *STATE-OF-THE-ART REVIEWS; *WATER SUPPLY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 331P. PRICE CODE: MF A01. PB83-263467. PAPER COPIES AVAILABLE FROM: WORLD BANK, 1818 H STREET, N.W., WASHINGTON, DC 20433

ABSTRACT: PUBLIC HEALTH IS OF CENTRAL IMPORTANCE IN THE DESIGN AND IMPLEMENTATION OF IMPROVED EXCRETA DISPOSAL PROJECTS. IMPROVEMENTS IN HEALTH ARE THE MAIN SOCIAL AND ECONOMIC BENEFIT WHICH PLANNERS AND ECONOMISTS HOPE TO ACHIEVE BY INVESTING IN EXCRETA DISPOSAL. IT IS THEREFORE NECESSARY TO MAKE AVAILABLE AS MUCH INFORMATION AS POSSIBLE ABOUT THE INTERACTION BETWEEN EXCRETA AND HEALTH IN ORDER THAT ENGINEERS AND PLANNERS MAY MAKE INFORMED AND RATIONAL DECISIONS. THE INFORMATION THAT IS REQUIRED NOT ONLY CONCERNS THE BROAD EPIDEMIOLOGICAL ISSUES OF THE IMPACT ON DISEASE OF IMPROVEMENTS IN EXCRETA DISPOSAL, BUT ALSO THE WAYS IN WHICH PARTICULAR EXCRETA DISPOSAL AND REUSE TECHNOLOGIES AFFECT THE SURVIVAL AND DISSEMINATION OF PARTICULAR PATHOGENS. THIS BOOK SETS OUT TO PROVIDE SUCH INFORMATION. IT IS INTENDED FOR PLANNERS, ENGINEERS, ECONOMISTS AND HEALTH WORKERS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010472

PUBLICATION DATE: 81

TITLE: APPROPRIATE TECHNOLOGY FOR WATER SUPPLY AND SANITATION: NIGHT-SOIL COMPOSTING.

PERSONAL AUTHOR: SHUVAL, HILLEL I.; AND OTHERS

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *AEROBIC COMPOSTING; COMPOSTING; *DEVELOPING COUNTRIES; *NIGHT SOIL; *PUBLIC HEALTH; *SANITATION; *WASTE DISPOSAL; *WATER SUPPLY; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 95P. PRICE CODE: MF A01. PB83-263459. PAPER COPIES AVAILABLE FROM: WORLD BANK, 1818 H STREET, N.W., WASHINGTON, DC 20433

ABSTRACT: AMONG THE PROBLEMS FACING THOSE WHO DEPEND ON CONSERVANCY OR OTHER SYSTEMS DISPOSING SEPARATELY GREY WATER AND NIGHT SOIL IS THE LACK OF A SAFE, INEXPENSIVE TREATMENT METHOD FOR NIGHT SOIL. IN KYOTO, FOR EXAMPLE, NIGHT SOIL IS COLLECTED HYGIENICALLY TO THE SATISFACTION OF USERS OF THE SYSTEM, ONLY TO BE DILUTED AT A CENTRAL COLLECTION POINT FOR DISCHARGE TO THE SEWER SYSTEM AND TREATMENT AT A CONVENTIONAL SEWAGE TREATMENT PLANT. THIS PAPER REVIEWS THE STATE OF THE ART ON NIGHT-SOIL COMPOSTING. THE PAPER CONCLUDES THAT AEROBIC COMPOSTING OF NIGHT SOIL REPRESENTS A METHOD OF TREATMENT IDEALLY SUITED FOR DEVELOPING COUNTRIES BECAUSE OF ITS SIMPLICITY IN OPERATION, LIMITED NEED FOR MECHANICAL EQUIPMENT, LOW COST AND ITS EFFECTIVENESS IN INACTIVATING PATHOGENS, THUS ASSURING THAT THE COMPOST CAN BE USED WITHOUT CAUSING ANY PUBLIC HEALTH HAZARD.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010473

PUBLICATION DATE: 82

TITLE: APPROPRIATE TECHNOLOGY FOR WATER SUPPLY AND SANITATION: SANITATION ALTERNATIVE FOR LOW-INCOME COMMUNITIES: VOLUME 1B. A BRIEF INTRODUCTION.

PERSONAL AUTHOR: MARA, DUNCAN

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *DEVELOPING COUNTRIES; *ECONOMICS; *FACILITIES; *LOW-INCOME COMMUNITIES; *PLANNING; *SANITATION; *WASTE DISPOSAL; WATER SUPPLY

DESCRIPTIVE NOTE: 58P. PRICE CODE: MF A01. PB83-263442. PAPER COPIES AVAILABLE FROM: WORLD BANK, 1818 H STREET, N.W., WASHINGTON, DC 20433

ABSTRACT: THIS BOOKLET IS INTENDED FOR ECONOMIC, URBAN, AND HEALTH PLANNERS; ITS PURPOSES ARE TO INTRODUCE IN GENERAL NON-TECHNICAL TERMS THE ALTERNATIVE SANITATION TECHNOLOGIES THAT ARE CURRENTLY AVAILABLE FOR LOW-INCOME URBAN COMMUNITIES IN DEVELOPING COUNTRIES, AND TO PRESENT A SUITABLE PLANNING METHODOLOGY FOR PROVIDING THESE COMMUNITIES WITH THE SANITATION FACILITIES THEY NEED. THIS PRIMARY HEALTH OBJECTIVE CAN BE FULLY ACHIEVED BY SANITATION TECHNOLOGIES WHICH ARE MUCH SIMPLER AND CHEAPER THAN CONVENTIONAL SEWERAGE; THESE TECHNOLOGIES ARE DESCRIBED IN THE REPORT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010474

PUBLICATION DATE: 80

TITLE: APPROPRIATE TECHNOLOGY FOR WATER SUPPLY AND SANITATION: VOLUME 1A. SUMMARY OF TECHNICAL AND ECONOMIC OPTIONS.

PERSONAL AUTHOR: KALBERMATTEN, JOHN M.; AND OTHERS

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *ECONOMICS; *DEVELOPING COUNTRIES; *PUBLIC HEALTH; *RESEARCH REPORTS; *SANITATION; *WASTE DISPOSAL; *WATER SUPPLY; *TECHNOLOGY

DESCRIPTIVE NOTE: 56P. PRICE CODE: MF A01. PB83-263434. PAPER COPIES AVAILABLE FROM: WORLD BANK, 1818 H STREET, N.W., WASHINGTON, DC 20433

ABSTRACT: THIS PAPER IS A SUMMARIZED VERSION OF THE FINAL REPORT ON APPROPRIATE TECHNOLOGY FOR WATER SUPPLY AND WASTE DISPOSAL IN DEVELOPING COUNTRIES, A WORLD BANK RESEARCH PROJECT (RPO 671-46) UNDERTAKEN BY THE ENERGY, WATER AND TELECOMMUNICATIONS DEPARTMENT IN 1976-1978. IT REPORTS THE BROAD TECHNICAL, ECONOMIC, HEALTH, AND SOCIAL FINDINGS OF THE RESEARCH AND DISCUSSES THE ASPECTS OF PROGRAM PLANNING NECESSARY FOR THEIR IMPLEMENTATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010475

PUBLICATION DATE: SEP 83

TITLE: DEMONSTRATE REAL TIME AUTOMATIC CONTROL OF COMBINED SEWER SYSTEMS.

PERSONAL AUTHOR: COFFEE, HAROLD C.; AND OTHERS

DESCRIPTOR: *AUTOMATIC CONTROLS; *COMBINED SEWER SYSTEMS; *COSTS; *MODELS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 173P. PRICE CODE: PC A08/MF A01. PB83-259705.

ABSTRACT: THE PRIMARY OBJECTIVE OF THIS STUDY WAS TO DEVELOP A REAL TIME AUTOMATIC CONTROL MODEL THAT COULD BE USED IN CONNECTION WITH A COMBINED SEWER SYSTEM TO MINIMIZE OVERFLOWS DURING STORMS. THE MODEL WAS APPLIED TO THE NORTH SHORE OUTFALL CONSOLIDATION PROJECT IN SAN FRANCISCO. THIS PROJECT CONSISTS OF A LARGE TRANSPORT STORAGE FACILITY THAT

INTERCEPTS EXISTING OUTFALLS AND ALLOWS FLOWS TO BE PUMPED TO A PRIMARY OR A SECONDARY TREATMENT PLANT DEPENDING ON OPERATIONAL STRATEGY. FOUR REACTIVE CONTROL STRATEGIES AND ONE REACTIVE-PREDICTIVE STRATEGY WERE FORMULATED AND EVALUATED FOR POLLUTANT REMOVAL PERFORMANCE. THE COST EFFECTIVENESS OF EACH WAS THEN DETERMINED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010476

PUBLICATION DATE: APR 83

TITLE: DRINKING WATER PILOT STUDY: SUMMARY.

PERSONAL AUTHOR: BELLACK, ERVIN; COTRUVO, JOSEPH A.

DESCRIPTOR: *ANALYTICAL CHEMISTRY; *DATA ANALYSIS; *DRINKING WATER; *GROUNDWATER; *MICROBIOLOGY; *OPERATIONS (WATER); *PILOT STUDIES; *PUBLIC HEALTH; *RECYCLING; *WATER TREATMENT; *WATER REUSE; *WATER POLLUTION CONTROL; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 242P. PRICE CODE: PC A11/MF A01. PB83-256375.

ABSTRACT: THE DRINKING WATER PILOT STUDY WAS INITIATED BY THE U. S. EPA IN ORDER TO ADDRESS A BROAD SPECTRUM OF DRINKING WATER QUALITY AND HEALTH RELATED ISSUES. SIX SUBJECT AREAS HAVE BEEN STUDIED BY A NUMBER OF GROUPS REPRESENTING INDIVIDUALS FROM ELEVEN NATO COUNTRIES AND THREE NON-ALLIANCE COUNTRIES WITH TECHNICAL PARTICIPATION FROM MANY OTHERS. THE TOPIC AREAS INCLUDE ANALYTICAL CHEMISTRY AND DATA HANDLING (AREA I), ADVANCED TREATMENT TECHNOLOGY (AREA II), MICROBIOLOGY (AREA III), HEALTH EFFECTS (AREA IV), REUSE OF WATER RESOURCES (AREA V), AND GROUND WATER PROTECTION (AREA VI).

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010477

PUBLICATION DATE: SEP 83

TITLE: EPA (ENVIRONMENTAL PROTECTION AGENCY) MACROSCOPIC PLANNING MODEL (EPAMAC) FOR STORMWATER AND COMBINED SEWER OVERFLOW CONTROL: APPLICATION GUIDE AND USER'S MANUAL.

PERSONAL AUTHOR: SMITH, WILLIAM G.; STRICKFADEN, MARIANNE E.

DESCRIPTOR: COMPUTER APPLICATIONS; *DESIGN; *EPAMAC; *FACILITIES; *FLOW ANALYSIS; *MANUALS; *MANAGEMENT; *MODELS; *PLANNING; *SEWERS; STORMWATER; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 335P. PRICE CODE: PC A15/MF A01. PB83-259689.

ABSTRACT: A SIMPLIFIED STORMWATER MANAGEMENT MODEL HAS BEEN DEVELOPED TO PROVIDE AN INEXPENSIVE, FLEXIBLE TOOL FOR PLANNING AND PRELIMINARY SIZING OF STORMWATER FACILITIES. THE MODEL WAS DEVELOPED TO BE PART OF A METHODOLOGY FOR USE IN THE MANAGEMENT OF STORMWATER THAT UTILIZES BOTH SIMPLE COMPUTER PROGRAMS AND HAND COMPUTATIONS. THE MODEL CONSISTS OF THREE UNCOMPLICATED BUT INTERRELATED PROGRAMS THAT CAN BE USED SINGULARLY OR TOGETHER. CAPABILITIES OF THE MODEL, IN ADDITION TO QUANTITY AND QUALITY ANALYSES FOR STORMWATER FLOWS, INCLUDE DRY-WEATHER FLOW, HOURLY SIMULATION, OVERFLOW EVEN ANALYSIS, POLLUTANT REMOVALS DUE TO SEDIMENTATION IN STORAGE, AND LATERAL INFLOWS. POSTPROCESSOR PROGRAMS CAN ALSO PROVIDE HISTOGRAM PLOTS OF FLOW AND QUALITY AND ANALYSES OF RECEIVING WATER COLIFORM LIMITATION VIOLATION DAYS FOR SEVERAL COLIFORM STANDARDS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010478

PUBLICATION DATE: 82

TITLE: MODEL FOR THE DEVELOPMENT OF A SELF-HELP WATER SUPPLY PROGRAM.

PERSONAL AUTHOR: GLENNIE, COLIN

DESCRIPTOR: *FACILITIES; *INSTITUTIONAL REQUIREMENTS; *MODELS; *PLANNING; *PROGRAM DEVELOPMENT; *RURAL AREAS; *SANITATION; *TRAINING; *WATER SUPPLY

DESCRIPTIVE NOTE: 59P. PRICE CODE: MF A01; PB83-262774; PAPER COPIES AVAILABLE FROM: WORLD BANK, 1818 H STREET, N.W., WASHINGTON, DC 20433

ABSTRACT: THIS WORKING PAPER CONSIDERS THE MANPOWER, TRAINING AND INSTITUTIONAL REQUIREMENTS OF SELF-HELP WATER SUPPLY AND SANITATION PROGRAMS. THE RECOMMENDATIONS HERE WOULD BE OF DOUBTFUL VALUE IF THEY WERE MADE SUFFICIENTLY GENERAL TO BE APPLICABLE TO ANY PROGRAM IN ANY COUNTRY. ACCORDINGLY, THE APPROACH HAS BEEN TO CONSIDER A PRACTICAL MODEL FOR THE DEVELOPMENT OF A SELF-HELP PROGRAM, AND EXAMINE THE ISSUES OF MANPOWER, TRAINING AND INSTITUTIONAL REQUIREMENTS IN RELATION TO THIS MODEL WHILE DISCUSSING ISSUES OF PARALLEL IMPORTANCE. THIS EXERCISE PROVIDES A BASIS FOR CONSIDERING WHAT FEATURES OF THE MODEL ARE APPLICABLE TO OTHER PROGRAM MODELS, AND HOW THEY MAY BE ADAPTED ACCORDINGLY. THE PAPER DESCRIBES A MODEL WHICH HAS TAKEN A DECADE TO DEVELOP IN THE FIELD. ALTHOUGH THE MODEL HAS DEVELOPED FROM A RURAL WATER SUPPLY PROGRAM, MANY OF THE PRINCIPAL FEATURES ARE APPLICABLE TO SANITATION PROGRAM DEVELOPMENT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010479
PUBLICATION DATE: JUL 83

TITLE: MUNICIPAL WASTEWATER DISINFECTION PROCEEDINGS OF THE SECOND NATIONAL SYMPOSIUM, ORLANDO, FLORIDA ON JANUARY 26-28, 1982.

PERSONAL AUTHOR: VENOSA, A. D.; AKIN, E. W.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *DISINFECTION; *OPERATIONS (WASTEWATER); *PUBLIC HEALTH; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 338P. PRICE CODE: PC A17/MF A01; PB83-263848

ABSTRACT: THE USEPA'S MUNICIPAL ENVIRONMENTAL RESEARCH LABORATORY AND HEALTH EFFECTS RESEARCH LABORATORY, CINCINNATI, OHIO SPONSORED A NATIONAL SYMPOSIUM ON MUNICIPAL WASTEWATER DISINFECTION IN ORLANDO, FLORIDA, JANUARY 26-28, 1982. THE SYMPOSIUM BROUGHT TOGETHER SCIENTISTS, ENGINEERS, AND FEDERAL, STATE AND LOCAL GOVERNMENT OFFICIALS FOR AN EXCHANGE OF INFORMATION ON HEALTH, TECHNOLOGICAL AND DESIGN/O&M CONSIDERATIONS OF WASTEWATER DISINFECTION. THE CONFERENCE WAS BEGUN WITH PHILOSOPHICAL PRO AND CON PAPERS ON THE NEED FOR WASTEWATER DISINFECTION. THESE PAPERS SET THE STAGE FOR THE TECHNICAL SESSIONS THAT FOLLOWED. THE LAST PAPER WAS A SUMMARY OF THE CONFERENCE WITH PERSONAL OBSERVATIONS OF A PERSON LONG ACTIVE IN THE WATER HEALTH FIELD.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010480

PUBLICATION DATE: 77

TITLE: MUNICIPAL WATER SUPPLY PROJECT ANALYSIS: CASE STUDIES.

PERSONAL AUTHOR: LAWSON-SCRIBNER, FRANK H., JR.; HUANG, JOHN W.

DESCRIPTOR: *ACCOUNTING; *CASE STUDIES; *ECONOMICS; *MANAGEMENT; *MUNICIPALITIES; *PLANNING; *WATER RATES; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 520P. PRICE CODE: MF A01; PB83-263913 PAPER COPIES AVAILABLE FROM: WORLD BANK; 1818 H STREET, N. W. WASHINGTON, DC 20433

ABSTRACT: THIS PUBLICATION PRESENTS CASE STUDIES FROM A VARIETY OF SETTINGS ON MUNICIPAL WATER SUPPLY PROJECTS. INCLUDED ARE SECTIONS ON FORECASTING, DISCOUNTING, ACCOUNTING, FINANCE, WATER RATE STRUCTURES, ECONOMIC ANALYSIS, AND PROJECT MANAGEMENT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010481
PUBLICATION DATE: SEP 83

TITLE: PREDICTION OF ECOLOGICAL EFFECTS OF TOXIC CHEMICALS: OVERALL STRATEGY AND THEORETICAL BASIS FOR THE ECOSYSTEM MODEL.

PERSONAL AUTHOR: LASSITER, RAY R.; COOLEY, JAMES L.

DESCRIPTOR: *AQUATIC ECOSYSTEMS; *CHEMICALS; *ECOLOGY; *ENVIRONMENTAL IMPACT; *MODELS; *TOXIC SUBSTANCES; *ECOSYSTEMS

DESCRIPTIVE NOTE: 66P. PRICE CODE: PC A04/MF A01; PB83-261685

ABSTRACT: A STRATEGY IS DEVELOPED FOR MODELING ECOSYSTEMS TO PERMIT ASSESSMENT OF EFFECTS OF TOXIC CHEMICALS ON ELEMENT CYCLING AND OTHER ECOSYSTEM PROCESSES. THE STRATEGY INCLUDES USE OF MULTI-SPECIES REPRESENTATIONS OF BIOTIC COMMUNITIES AND MATHEMATICAL DESCRIPTIONS OF THE PROCESSES THAT ARE IMPORTANT IN AQUATIC ECOSYSTEMS. DIRECT EFFECTS OF TOXICANTS ARE ASSIGNED TO THE SPECIES COMPRISING THE BIOTIC COMMUNITY IN A MANNER SUGGESTED BY AVAILABLE TOXICOLOGICAL INFORMATION. EFFECTS ARE CALCULATED AS THE DIFFERENCE BETWEEN SELECTED MEASURES OF PROCESSES FROM UNAFFECTED SYSTEMS AND SYSTEMS AFFECTED BY THE PRESENCE OF A TOXIC CHEMICAL.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010482

PUBLICATION DATE: JUL 81

TITLE: SMALL WATER PURIFICATION SYSTEMS.

PERSONAL AUTHOR: CASE, RICHARD B.; RISTAU, TONI K.

DESCRIPTOR: *CHLORINE; *DISINFECTION; *IODINE; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *SMALL SYSTEMS; *ULTRAVIOLET LIGHT; *WATER TREATMENT

DESCRIPTIVE NOTE: 34P. PRICE CODE: PC A03/MF A01; PB83-264267

ABSTRACT: SMALL WATER PURIFICATION SYSTEMS ARE EXAMINED. CHLORINATION IS DETERMINED TO BE SUITABLE FOR LONG-TERM CONTINOUS USE BUT IS NOT FEASIBLE IN REMOTE LOCATIONS WHERE ELECTRICITY IS NOT AVAILABLE. IODINATION IS MORE EFFECTIVE THROUGH A WIDER RANGE THAN CHLORINATION. IT IS ALSO LESS EXPENSIVE, EASIER TO INSTALL, REQUIRES NO ELECTRICITY AND LITTLE MAINTENANCE. IODINATION CAN HAVE ADVERSE HEALTH EFFECTS AND IS NOT RECOMMENDED FOR RESIDENTIAL USE. ORGANIZATION IS EFFECTIVE, BUT MORE EXPENSIVE TO INSTALL, OPERATE AND MAINTAIN AND IS NOT RECOMMENDED AS A SMALL WATER PURIFICATION SYSTEM. ULTRAVIOLET TREATMENT IS A DISINFECTANT ONLY; WATER MAY BECOME CONTAMINATED ONCE IT PASSES THE POINT OF DISINFECTION. UV IS CUMBERSOME AND EXPENSIVE AND IS NOT RECOMMENDED FOR A SYSTEM WHICH REQUIRES SEVERAL OUTLETS. IT

ALSO REQUIRES ELECTRICITY AND IS NOT FEASIBLE FOR REMOTE LOCATIONS WHERE POWER IS NOT AVAILABLE. REVERSE OSMOSIS IS EXPENSIVE AND SHOULD BE CONSIDERED ONLY WHEN THE WATER SOURCE HAS VERY HIGH LEVELS OF DISSOLVED CONTAMINANTS WHEN TREATMENT BEYOND DISINFECTION IS DESIRED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010483

PUBLICATION DATE: SEP 83

TITLE: TOXICITY AND METABOLISM STUDIES WITH EPA (ENVIRONMENTAL PROTECTION AGENCY) PRIORITY POLLUTANTS AND RELATED CHEMICALS IN FRESHWATER ORGANISMS.

PERSONAL AUTHOR: CALL, DANIEL J.; AND OTHERS

DESCRIPTOR: *CHEMICALS; *ENVIRONMENTAL IMPACT; *FRESHWATER ORGANISMS; *METABOLISM; *PRIORITY POLLUTANTS; *RESEARCH REPORTS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 134P. PRICE CODE: PC A07/MF A01; PB83-263665

ABSTRACT: TWENTY-TWO CHEMICALS FROM THE EPA PRIORITY POLLUTANT LIST WERE STUDIED FOR THEIR ACUTE AND/OR CHRONIC TOXICITY TO SELECTED FRESHWATER ORGANISMS. FRESHWATER SPECIES TESTED INCLUDED THE FATHEAD MINNOW (PIMEPHALES PROMELAS), RAINBOW TROUT (SALMO GAIRDNERI), BLUEGILL SUNFISH (LEPOMIS MACROCHIRUS), FLAGFISH (JORDANELLA FLORIDAE), WATER FLEA (DAPHNIA MAGNA), SCUD (GAMMARUS PSEUDOLIMNAEUS), MIDGE (TANVTARSUS DISSIMILIS), AND GREEN ALGA (SELENASTRUM CAPRICORNUTUM). A COMPARISON WAS MADE OF THE METABOLISM AND BINDING OF CARBON TETRACHLORIDE, CHLOROFORM, 1,1,2-TRICHLOROETHANE, 1,1,2-TRICHLOROETHYLENE AND MONOCHLOROBENZENE BY MICROSOMAL FRACTIONS OF RAINBOW TROUT LIVERS AND OF DAPHNID WHOLE BODIES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010484

PUBLICATION DATE: SEP 83

TITLE: VALUE OF FLOW CALIBRATION FOR DECISION MAKING IN INFILTRATION/INFLOW STUDIES.

PERSONAL AUTHOR: PISANO, WILLIAM C.; AND OTHERS

DESCRIPTOR: *DATA ANALYSIS; *COSTS; *DECISION MAKING; *ECONOMICS; *FLOW CALIBRATION; *INFILTRATION; *INFLOW; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 73P. PRICE CODE: PC A04/MF A01; PB83-259[illegible]9

ABSTRACT: THIS REPORT DEALS WITH THE VALUE OF FLOW CALIBRATION FOR DECISION MAKING IN SEWER SYSTEM STUDIES. THE PRESENT STUDY INCLUDED A VARIETY OF 'WHAT IF' SCENARIOS FOR CRITICAL KEY MANHOLES AS TO THE AMOUNT OF INFORMATION AVAILABLE TO DEVELOP STAGE/FLOW CALIBRATION CURVES. THE FINDINGS INDICATE THAT THE ADDITIONAL CARE AND THE COSTS INVOLVED IN PRIMARY FLOW CALIBRATION OF STAGE/FLOW CURVES FOR SEWER SYSTEM EVALUATIONS ARE WELL WORTH THE EFFORT, AND, IN MANY INSTANCES, COULD SAVE THE GOVERNMENT VALUABLE RESOURCES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010485

PUBLICATION DATE: SEP 83

TITLE: WATER POLLUTANT IDENTIFICATION: TOXICITY BIOASSAYS. 1977-SEPTEMBER, 1983 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *BIOASSAY; *LABORATORY PROCEDURES; *BIOINDICATORS; *MONITORING; *POLLUTANT IDENTIFICATION; *TOXIC SUBSTANCES; *WATER POLLUTION; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 111P. PRICE CODE: PC N01/MF N01; PB83-871640

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING TOXICITY BIOASSAY TECHNIQUES FOR POLLUTANT IDENTIFICATION. MICROBIOLOGICAL STUDIES AND EVALUATION OF BIOASSAYS IN WATER POLLUTION TREATMENT AND WASTEWATER TOXICITY CONTROL ARE DISCUSSED. BIOMONITORING TECHNIQUES, BIOINDICATORS, AND BIOASSAY PROCEDURES FOR POLLUTANT IDENTIFICATIONS ARE PRESENTED. (CONTAINS 90 CITATIONS FULLY INDEXED AND INCLUDING A TITLE LIST.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010486

PUBLICATION DATE: SEP 83

TITLE: WATER RESOURCES ORGANIZATIONS IN GEORGIA.

PERSONAL AUTHOR: HATCHER, K. J.; CHAMBERS, R. C.

DESCRIPTOR: *DIRECTORIES; *FEDERAL PROGRAMS; *GEORGIA; *NATURAL RESOURCES; *ORGANIZATIONS; *PROGRAM DESCRIPTIONS; *STATE PROGRAMS; *WATER RESOURCES

DESCRIPTIVE NOTE: 98P. PRICE CODE: PC A05/MF A01; PB84-117274

ABSTRACT: THE NATURAL RESOURCES OF WATER QUALITY, WATER QUANTITY, SURFACE WATER, AND GROUND WATER ARE CURRENTLY MANAGED THROUGH WATER PROGRAMS IN VARIOUS FEDERAL, STATE AND

LOCAL AGENCIES. MORE EFFICIENT WATER MANAGEMENT AND RESOURCES UTILIZATION WOULD RESULT IF AGENCY PROGRAMS WERE BETTER COORDINATED TO MANAGE THE WATER RESOURCES AND WATER USERS AS A SYSTEM. THIS REPORT SEEKS TO FACILITATE MORE COORDINATED WATER RESOURCES MANAGEMENT BY PROVIDING A COMPILATION AND SUMMARY OF WATER MANAGEMENT ACTIVITIES BY LOCAL, STATE, FEDERAL, AND PRIVATE ORGANIZATIONS IN GEORGIA.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010487

PUBLICATION DATE: OCT 83

TITLE: RECLAIMED WATER. 1977-OCTOBER, 1983 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; FEDERAL ROLE; INDUSTRIAL WASTES; *POLICIES; *PUBLIC-ATTITUDES; *RECLAIMED WATER; *RECYCLED WATER; *WASTEWATER TREATMENT; *WATER RECLAMATION; *WATER REUSE

DESCRIPTIVE NOTE: 194P. PRICE CODE: PC N01/MF N01; PB84-350429

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING RECLAIMED WATER. WATER RECLAMATION FACILITIES, RECLAIMED WATER REUSE AND STORAGE, AND RECLAMATION TECHNIQUES AND PROCESSES ARE DISCUSSED. INDUSTRIAL AND DOMESTIC WASTEWATER RECLAMATION AND REUSE SYSTEMS ARE ALSO DISCUSSED. PUBLIC ATTITUDES AND FEDERAL POLICY OF WATER RECLAMATION ARE PRESENTED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 173 CITATIONS, 15 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010488

PUBLICATION DATE: AUG 83

TITLE: WATERBORNE OUTBREAKS IN THE UNITED STATES, 1971-81.

PERSONAL AUTHOR: CRAUN, GUNTHER F.; AND OTHERS

DESCRIPTOR: *DISEASES; *DRINKING WATER; *PUBLIC HEALTH; *STATISTICS; *UNITED STATES; *WATERBORNE DISEASES; *WATER SUPPLY

DESCRIPTIVE NOTE: 46P. PRICE CODE: PC A03/MF A01; PB83-246108

ABSTRACT: SINCE 1971 THE ENVIRONMENTAL PROTECTION AGENCY AND THE CENTER FOR DISEASE CONTROL HAVE COOPERATED IN THE INVESTIGATION AND REPORTING OF WATERBORNE OUTBREAKS IN THE UNITED STATES. THREE HUNDRED AND TWENTY WATERBORNE OUTBEAKS AFFECTING 77,989 INDIVIDUALS WERE REPORTED DURING 1971-80 BY 43 STATES AND PUERTO RICO. THREE DEATHS WERE ASSOCIATED WITH THESE OUTBREAKS. THIRTY-FIVE OUTBREAKS AND 4,450 CASES OF WATERBORNE DISEASE WERE REPORTED IN 1981. MOST OUTBREAKS OCCURRED IN NONCOMMUNITY WATER SYSTEMS BUT MOST OF THE DISEASE RESULTED FROM OUTBREAKS IN COMMUNITY WATER SYSTEMS. THERE IS A SEASONAL DISTRIBUTION OF OUTBREAKS IN NONCOMMUNITY AND INDIVIDUAL WATER SYSTEMS WITH MOST OUTBREAKS OCCURRING IN THE SUMMER MONTHS AND AFFECTING PRIMARILY TRAVELERS, VISITORS TO RECREATIONAL AREAS, CAMPERS, AND RESTAURANT PATRONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010489

PUBLICATION DATE: MAY 83

TITLE: MANAGING SMALL AND ALTERNATIVE WASTEWATER SYSTEMS: A PLANNING MANUAL.

DESCRIPTOR: *ALTERNATIVE SYSTEMS; *FACILITIES; *MANAGEMENT; *MANUALS; *OPERATIONS (WASTEWATER); *PLANNING; *SMALL SYSTEMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 193P. PRICE CODE: A09/MF A01; PB83-250530

ABSTRACT: THIS MANUAL OUTLINES A PLANNING METHODOLOGY FOR THE DEVELOPMENT OF A (SMALL AND ALTERNATIVE WASTEWATER SYSTEMS (SAWS) MANAGEMENT PROGRAM. IT IDENTIFIES THE QUESTIONS A COMMUNITY MUST CONSIDER WHEN PLANNING SAWS MANAGEMENT AND ALSO OFFERS SOME ALTERNATIVE ANSWERS TO THOSE QUESTIONS. EACH AND EVERY COMMUNITY HAS A UNIQUE POLITICAL MAKEUP AND EQUALLY UNIQUE WASTEWATER PROBLEMS. THUS, SUCCESSFUL SAWS MANAGEMENT PROGRAMS ARE SPECIFICALLY DESIGNED TO MEET THE NEEDS AND CONSTRAINTS OF THEIR LOCATIONS. THIS MANUAL WILL HELP SAWS PLANNERS IDENTIFY A NUMBER OF MANAGEMENT OPTIONS FOR THEIR COMMUNITY AND THEN HELP THEM EVALUATE THOSE OPTIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010490

PUBLICATION DATE: JUN 81

TITLE: SLUDGE SAMPLER.

PERSONAL AUTHOR: WARD, R. C.

DESCRIPTOR: *EQUIPMENT; *INVENTIONS; *OPERATIONS (WASTEWATER); *SAMPLING; *SLUDGE; *SLUDGE SAMPLER; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 8P. PRICE CODE: PC A02/MF A01; PAT-APPL-6-277-435

ABSTRACT: THE DISCLOSURE RELATES TO A SLUDGE SAMPLER COMPRISING AN ELONGATED GENERALLY CYLINDRICAL HOUSING

CONTAINING A BAFFLE CONTAINING AN APERTURE. CONNECTED TO THE APERTURE IS A FLEXIBLE TUBING HAVING A VALVE FOR MAINTAINING AND RELEASING PRESSURE IN THE LOWER END OF THE HOUSING AND EXITING THE UPPER END OF THE HOUSING. THE LOWER END OF THE HOUSING CONTAINS A BALL CHECK VALVE MAINTAINED IN CLOSED POSITION BY PRESSURE. WHEN THE LOWER END OF THE DEVICE CONTACTS THE SLUDGE BED, THE PRESSURE VALVE IS OPENED, ENABLING SLUDGE TO ENTER THE LOWER END OF THE HOUSING. AFTER THE SAMPLE IS COLLECTED THE VALVE IS CLOSED. AN UPSETTING PIN OPENS THE VALVE TO EMPTY A SLUDGE SAMPLE IS REMOVED FROM THE FLUID. (ERA CITATION 07:051102).

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010491

PUBLICATION DATE: NOV 83

TITLE: OCEAN WASTE DISPOSAL. AUGUST 1980-SEPTEMBER 1983 (CITATIONS FROM THE NTIS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *ENVIRONMENTAL IMPACT; *OCEANS; *RESEARCH REPORTS; *SEWAGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 147P. PRICE CODE: PC N01/MF N01; PB84-300135

ABSTRACT: THE MAIN TOPICS COVER THE OCEAN DISPOSAL OF SEWAGE, SEWAGE SLUDGE, AND DREDGED MATERIAL, ALTHOUGH REPORTS ON THE DISPOSAL OF RADIOACTIVE WASTES, BRINES AND INDUSTRIAL WASTES ARE ALSO INCLUDED. THE ECOLOGICAL AFFECTS ARE GIVEN, AS IS RESEARCH ON THE POLLUTION OF THE NEW YORK BIGHT. HOWEVER, STUDIES ON THE DISCHARGE OF HEATED EFFLUENTS ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 139 CITATIONS, 64 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010492

PUBLICATION DATE: OCT 83

TITLE: WASTEWATER TREATMENT: LAGOONS. 1977-OCTOBER, 1983 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *DESIGN; *EQUIPMENT; *LAGOONS; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 209P. PRICE CODE: PC N01/MF N01; PB84-350684

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TREATMENT OF WASTEWATER IN AERATED LAGOONS. THE DESIGN, OPERATION, EQUIPMENT AND PRETREATMENT PROCESSES ARE DISCUSSED. THE TREATMENT OF WASTEWATER FROM BREWERIES, TANNERIES, PAPER MILLS AND OTHER INDUSTRIAL OPERATIONS ARE CONSIDERED. (THIS UP-DATED BIBLIOGRAPHY CONTAINS 190 CITATIONS, 32 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010493

PUBLICATION DATE: APR 83

TITLE: DEVELOPMENT AND EVALUATION OF ANALYTICAL TEST PROCEDURES FOR PRIORITY POLLUTANTS.

PERSONAL AUTHOR: MONTEITH, C. S.; BENDER, DANIEL F.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CYANIDE; *EVALUATION; *LABORATORY PROCEDURES; *PHENOLS; *POLLUTANTS; *PRIORITY POLLUTANTS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: PB83-166181; COST: $13.00

ABSTRACT: ANALYTICAL METHODS WERE DEVELOPED FOR THE DETERMINATION OF CYANIDE AND OF TOTAL PHENOLIC COMPOUNDS IN SOLID/SEMISOLID SAMPLES OF ENVIRONMENTAL IMPORTANCE. BOTH COMPOUNDS MAY ACCUMULATE IN SEDIMENTS AND ARE TAKEN UP BY AQUATIC PLANTS AND ANIMAL IN A VARIETY OF WAYS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010494

PUBLICATION DATE: MAY 83

TITLE: QUANTITATION OF VIRUSES IN WASTE AND OTHER WATERS.

PERSONAL AUTHOR: SMITH, JAMES E.

DESCRIPTOR: *OPERATIONS (WASTEWATER); *RESEARCH; *SLUDGE; *VIRUSES; *WASTEWATER; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: [illegible]-190306; COST: $11.50

ABSTRACT: THE OVERALL OBJECTIVES OF THIS STUDY WERE THREE - FOLD: (1) TO DETERMINE MORE PRECISELY THOSE ELEMENTS IN SLUDGE SOLIDS WHICH REMOVE OR INACTIVATE VIRIONS; (2) TO IMPROVE THE TECHNOLOGY FOR RECOVERING AND ASSAYING ABSORBED, INFECTIONS VIRUSES; AND (3) TO DEVISE TECHNIQUES FOR CONTROLLING AND IMPROVING THE REMOVAL OF VIRUSES BY PRECIPITABLE SLUDGE SOLIDS OR OTHER METHODS RELATED TO THE RECOVERY OF WASTEWATERS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

BEST COPY AVAILABLE

IRIS ACCESSION NUMBER: EW010495
PUBLICATION DATE: MAR 84

TITLE. TOXICOLOGY - PRINCIPLES AND PRACTICE, VOLUME 2.

PERSONAL AUTHOR: SPERLING, FREDERICK

DESCRIPTOR: *CHEMICALS; *ENVIRONMENTAL IMPACT; *HEALTH; *PHYSIOLOGY; *POLLUTION; *POLLUTION CONTROL; *TOXICOLOGY

DESCRIPTIVE NOTE: 232P. PRICE: $45.00

ABSTRACT: THIS VOLUME ADDRESSES TOXICOLOGY AS A BASIC SCIENCE AND AS AN APPLIED DOCTRINE WITH THE PRACTICAL PURPOSE OF UNCOVERING AND ELIMINATING POTENTIAL SOURCES OF POISONINGS FROM THE ENVIRONMENT. EXTENDING AND EXPANDING THE WORK BEGUN IN VOLUME ONE, IT DEALS WITH TOPICS WHICH HAVE EMERGED IN IMPORTANCE IN THIS AREA SINCE THE PUBLICATION OF THE FIRST VOLUME, SUCH AS CHEMICALS IN THE ENVIRONMENT, PULMONARY SYSTEM TOXICOLOGY, AND KINETICS.

AVAILABILITY: JOHN WILEY 8 SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW010496

PUBLICATION DATE: 83

TITLE: AQUATIC TOXICOLOGY.

PERSONAL AUTHOR: NRIAGU, JEROME O.

DESCRIPTOR: *AQUATIC POLLUTANTS; *ENVIRONMENTAL IMPACT; *RESEARCH; *TOXICOLOGY; *TOXIC SUBSTANCES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 536P. PRICE: $89.95

ABSTRACT: THIS STATE-OF-THE-ART WORK SURVEYS THE TOXICOLOGY OF IMPORTANT AQUATIC POLLUTANTS, AND PROVIDES A CRITICAL OVERVIEW OF RESEARCH BEING DONE IN THE FIELD. ASSESSES THE RESPONSE AT COMMUNITY, SPECIES, TISSUE, CELLULAR, AND SUBCELLULAR LEVELS TO PARTICULAR TOXICANTS AND COVERS THE MECHANISMS OF UPTAKE, METABOLISM, AND EXCRETION OF MANY TOXIC POLLUTANTS.

AVAILABILITY: JOHN WILEY 8 SONS, INC., 605 THIRD STREET, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW010497

TITLE: OPERATING TECHNIQUES FOR THE TRACTOR-LOADER-BACKHOE

PERSONAL AUTHOR: OBER, GARY

DESCRIPTOR: *BACKHOES; *EQUIPMENT; *GUIDES; *HEAVY EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *LOADERS; *OPERATIONS (EQUIPMENT); *SAFETY; *TRACTORS

DESCRIPTIVE NOTE: PRICE: $21.95

ABSTRACT: THIS BOOK IS DESIGNED TO HELP IMPROVE THE PERFORMANCE AND SAFETY OF OPERATORS OF VARIOUS HEAVY EQUIPMENT. HEAVILY ILLUSTRATED, THE BOOK COVERS THE BASICS OF OPERATION, TYPICAL OPERATING TECHNIQUES, AND COMMON AND NOT-SO-COMMON ON-SITE JOB SITUATIONS. SOME OF THE TOPICS COVERED INCLUDE MACHINE CONTROL, SAFETY, MAINTENANCE, UTILITY EXCAVATION, PLANNING THE JOB, GRADING AND COMPACTION, BACKHOE TECHNIQUES, DEMOLITION, AND SO FORTH. A USEFUL REFERENCE FOR THE MUNICIPAL PUBLIC WORKS DEPARTMENT.

AVAILABILITY: OBER PUBLISHING, 9514-9 RESEDA BLVD. #478, NORTHRIDGE, CA 91324

IRIS ACCESSION NUMBER: EW010498

PUBLICATION DATE: 83

TITLE: IMPACT OF OIL POLLUTION ON LIVING RESOURCES.

PERSONAL AUTHOR: BAKER, J. M.

DESCRIPTOR: *ANIMALS; *CLEAN-UP; *ECOLOGY; *HABITATS; *OIL INDUSTRY; *OIL SPILLS; *PLANTS; *POLLUTION; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 1-48P.

ABSTRACT: THIS REPORT PRESENTS INFORMATION ON (1) OIL SPILLS AND CLEAN-UP, (2) EFFECTS OF THESE SPILLS AND CLEAN-UP ON ANIMALS AND PLANTS, (3) EFFECTS OF SPILLS AND CLEAN-UP ON HABITATS, AND (4) THE OIL INDUSTRY IN DIFFERENT REGIONS OF THE WORLD, (5) CONCLUSIONS, (6) SUMMARY OF PRIORITIES FOR WWF/IUEN SUPPORT, AND (7) REFERENCES.

AVAILABILITY: THE ENVIRONMENTALIST; V3 N4

IRIS ACCESSION NUMBER: EW010499

PUBLICATION DATE: NOV 83

TITLE: NOTES SUR L'HYDRAULIQUE DES CONDUITES D'AQUEDUC AT D'EGOUT.

PERSONAL AUTHOR: TROTTIER, J. J.

DESCRIPTOR: *CALCULATORS; *COMPUTER PROGRAMS; *ENGINEERING; *HYDRALUICS; *PIPES; *SEWERS; *WATER DISTRIBUTION; *WASTEWATER COLLECTION; *SEWERS

DESCRIPTIVE NOTE: 377-379P.

ABSTRACT: THIS ARTICLE (WRITTEN IN FRENCH) PRESENTS A SIMPLE EQUATION COMBINING TWO COMMONLY-USED FORMULAS (HAZEN-WILLIAMS AND MANNING EQUATIONS) FOR WATER/SEWER PIPE CONNECTIONS. A SIMPLE METHOD TO SOLVE THE EQUATIONS IS EXPLAINED AND IS IMPLEMENTED BY A HAND CALCULATOR PROGRAM LISTED IN AN APPENDIX. OTHER PROGRAM CAPABILITIES ARE DISCUSSED.

AVAILABILITY: SCIENCE OF TECHNIQUES DE L'EAU; V16 N[illegible]

IRIS ACCESSION NUMBER: EW010500

PUBLICATION DATE: FEB 84

TITLE: OFFERING AN INSERVICE INSTRUCTIONAL PROGRAM USING A COMPUTER-BASED COMMUNICATION SYSTEM.

PERSONAL AUTHOR: MANOCK, JOHN J.; LUMB, ROGER H.

DESCRIPTOR: *BIOLOGY; *CHEMISTRY; *COMPUTER ORIENTED PROGRAMS; *COURSE DISCRIPTIONS; *INSERVICE TEACHER EDUCATION; *HIGH SCHOOLS; *ONLINE SYSTEMS; *SECONDARY SCHOOL SCIENCE; PROGRAM DISCRIPTIONS; PILOT PROJECTS

DESCRIPTIVE NOTE: 34-37P.

ABSTRACT: DESCRIBES A PILOT PROGRAM WHICE TESTED THE FEASIBILITY OF USING A COMPUTER-BASED COMMUNICATION SYSTEM FOR OFFERING AN INTERDISCIPLINARY, INSERVICE BIOLOGY AND CHEMISTRY COURSE TO REGIONAL HIGH SCHOOL TEACHERS. COURSE STRUCTURE (INCLUDING COMPUTER MANAGEMENT AND ELECTRONIC MAIL SYSTEM) ON-LINE EXAMINATIONS, AND UNANTICIPATED PROBLEMS ARE AMONG THE AREAS DISCUSSED.

AVAILABILITY: TECHNOLOGICAL HORIZONS IN EDUCATION JOURNAL; V11 N5

IRIS ACCESSION NUMBER: EW010526

PUBLICATION DATE: AUG 83

TITLE: NONPOINT SOURCE POLLUTION ABATEMENT IN THE GREAT LAKES BASIN - AN OVERVIEW OF POST-PLUARG DEVELOPMENTS.

DESCRIPTOR: CANADA; *EVALUATION; *GREAT LAKES; *NONPOINT SOURCE POLLUTION; MANAGEMENT; MONITORING; *POLLUTION CONTROL; *RECOMMENDATIONS; *REGULATIONS; REPORTS; *INTERNATIONAL PROBLEMS; *WATER QUALITY; UNITED STATES; *WATER RESOURCES

DESCRIPTIVE NOTE: 129P.

ABSTRACT: THIS IS A REPORT OF THE NONPOINT SOURCE CONTROL TASK FORCE OF THE WATER QUALITY BOARD OF THE INTERNATIONAL JOINT COMMISSION, SECTIONS OF THE REPORT INCLUDE (1) EXECUITIVE SUMMARY, (2) INTRODUCTION, (3) POST PLUARG OVERVIEW OF GREAT LAKES BASIN NONPOINT REMEDIAL PROGRAMS, (4) AN EVALUATION OF NONPOINT REMEDIAL PRACTICES IN THE GREAT LAKES BASIN, (5) SOME MAJOR SCIENTIFIC AND TECHNICAL ISSUES HAVING DIRECT IMPACT ON NONPOINT REGULATORY PROCESSES, (6) RESPONSE TO PLUARG RECOMMENDATIONS, (7) CONCLUSIONS AND (8) RECOMMENDATIONS.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010527
PUBLICATION DATE: NOV 83

TITLE: A REVIEW OF THE MUNICIPAL POLLUTION ABATEMENT PROGRAMS IN THE GREAT LAKES BASIN.

DESCRIPTOR: *COMPLIANCE; CONSTRUCTION; *FACILITIES; *GREAT LAKES BASIN; *EFFLUENTS; *OPERATIONS (WASTEWATER); ENFORCEMENT; MAINTENANCE; *POLLUTION ABATEMENT; *PERFORMANCE; EVALUATION; *RECOMMENDATIONS; SEWERS; TOXIC SUBSTANCES; *WASTEWATER TREATMENT; *SEWER OVERFLOW

DESCRIPTIVE NOTE: 184P.

ABSTRACT: THIS REPORT DESCRIBES THE FINDINGS OF THE MUNICIPAL ABATEMENT TASK FORCE OF THE WATER QUALITY PROGRAMS COMMITTEE REGARDING MUNICIPAL WASTEWATER TREATMENT FACILITIES AND POLLUTANT INPUTS. IT ALSO DISCUSSES THE ABILITY OF THE FACILITIES TO MEET EFFLUENT REQUIREMENTS, EVALUATES MONITORING PROGRAMS, AND COMPARES VARIOUS PROGRAMS AND REQUIREMENTS BASED ON 1981 DATA. THE REPORT SUMMARIZES PROGRESS WHICH HAS BEEN MADE IN MUNICIPAL WASTEWATER POLLUTION ABATEMENT DURING THE PAST DECADE AND IDENTIFIES AREAS FOR IMPROVEMENT IN THE FUTURE.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010528

PUBLICATION DATE: 83

TITLE: 1983 ANNUAL REPORT - COMMITTEE ON THE ASSESSMENT OF HUMAN HEALTH EFFECTS OF GREAT LAKES WATER QUALITY.

DESCRIPTOR: ANNUAL REPORTS; CHEMICALS; DRINKING WATER; *EVALUATION; *GREAT LAKES; *MONITORING; *POLLUTION CONTROL; *PUBLIC HEALTH; *RECOMMENDATIONS; *RESEARCH NEEDS; TOXICOLOGY; *WATER QUALITY

ABSTRACT: THIS IS THE 1983 REPORT OF THE COMMITEE ON THE ASSESSMENT OF HUMAN HEALTH EFFECTS OF GREAT LAKES WATER QUALITY, SECTIONS OF THE REPORT INCLUDE (1) DRINKING WATER CONCERNS, (2) TOXICOLOGICAL EVALUATION, (3) EVALUATION OF CHEMICALS, (4) RESEARCH NEEDS, (5) FUTURE DIRECTIONS, AND (6) RECOMMENDATIONS.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010529

PUBLICATION DATE: 83

TITLE: 1983 ANNUAL REPORT.

DESCRIPTOR: *ANNUAL REPORTS; *ECOLOGY; *GREAT LAKES; *PUBLIC HEALTH; *RECOMMENDATIONS; *RESEARCH REPORTS; *STANDARDS; *TECHNOLOGY; *TOXIC SUBSTANCES; *WATER QUALITY;

*WATER RESOURCES
DESCRIPTIVE NOTE: 36P.

ABSTRACT: THIS IS THE ANNUAL REPORT OF THE GREAT LAKES SCIENCE ADVISORY BOARD. DESCRIBED ARE ON GOING EFFORTS TO ASSESS THE EFFECTS OF PERSISTENT TOXIC SUBSTANCES ON THE HEALTH OF THE GREAT LAKES ECOSYSTEM; FINDINGS AND RECOMMENDATIONS ARE PRESENTED. SOME NEW TECHNIQUES BEING DEVELOPED TO IMPROVE GREAT LAKES WATER QUALITY AND RESOURCES ARE ALSO DISCUSSED.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 38232-2869

IRIS ACCESSION NUMBER: EW010530

PUBLICATION DATE: 83

TITLE: 1983 REPORT ON GREAT LAKES WATER QUALITY.

DESCRIPTOR: *ANNUAL REPORTS; CHEMICALS; *EUTROPHICATION; *GREAT LAKES; LAKES; *MANAGEMENT; *NONPOINT SOURCE CONTROL; *POINT SOURCE CONTROL; *POLLUTION CONTROL; *RECOMMENDATIONS; *TOXIC CHEMICALS; *WATER QUALITY

DESCRIPTIVE NOTE: 97P.

ABSTRACT: THIS IS THE TENTH REPORT BY THE GREAT LAKES WATER QUALITY BOARD TO THE INTERNATIONAL JOINT COMMISSION. THIS REPORT IS ORGANIZED AROUND FIVE MAJOR ISSUES. THESE ARE EUTROPHICATION, TOXIC CHEMICALS, AREAS OF CONCERN, POINT SOURCES, AND NONPOINT SOURCES. DETAILED INFORMATION WHICH SUPPORT THE BOARD'S REPORT ARE CONTAINED IN APPENDICES AND SPECIAL REPORTS THAT ARE PUBLISHED SEPARATELY.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010531

PUBLICATION DATE: 83

TITLE: 1983 ANNUAL REPORT - REPORT OF THE AQUATIC ECOSYSTEM OBJECTIVES COMMITTEE.

DESCRIPTOR: *ANNUAL REPORTS; *ECOSYSTEMS; CHEMICALS; ECOLOGY; *GREAT LAKES; HYDROCARBONS; FISH; *ORGANIC COMPOUNDS; *POLLUTION CONTROL; *PUBLIC HEALTH; *RECOMMENDATIONS; REGULATIONS; *RESEARCH NEEDS; *WATER QUALITY; WILDLIFE

DESCRIPTIVE NOTE: 69P.

ABSTRACT: THIS IS THE 1983 ANNUAL REPORT OF THE AQUATIC ECOSYSTEM OBJECTIVES COMMITTEE. INCLUDED IN THE REPORT ARE RECOMMENDATIONS, OBJECTIVES, REPORT OF THE TASK FORCE ON INDICATORS OF ECOSYSTEM QUALITY, AND FUTURE DIRECTIONS. RECOMMENDATIONS ARE MADE TO THE SCIENCE ADVISORY BOARD FOR FORWARDING TO THE INTERNATIONAL JOINT COMMISSION AND PARTIES OF THE GREAT LAKES WATER QUALITY AGREEMENT.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010532

PUBLICATION DATE: 83

TITLE: 1983 REPORT ON GREAT LAKES WATER QUALITY APPENDIX - DREDGING SUBCOMMITTEE REPORT.

DESCRIPTOR: *DREDGING; *GREAT LAKES; *GUIDELINES; *LAKE ERIE; *POLLUTION CONTROL; *RECOMMENDATIONS; *REPORTS; *WATER QUALITY

DESCRIPTIVE NOTE: 35P.

ABSTRACT: THIS REPORT CONTAINS A SUMMARY OF THE MAJOR FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS OF THE DREDGING SUBCOMMITTEE OF THE WATER QUALITY BOARD. SECTIONS IN THE REPORT INCLUDE (1) INTRODUCTION, (2) GUIDELINES AND REGISTER FOR EVALUATION OF GREAT LAKES DREDGING PROJECTS, (3) TOLEDO-TORONTO HARBOURS STUDY, (4) LAKE ERIE, (5) OPEN LAKE DISPOSAL SITE SELECTION GUIDELINES, (6) IN-PLACE POLLUTANTS, (7) GREAT LAKES WETLANDS, (8) BENEFICIAL USES OF DREDGED MATERIAL, (9) BIOASSESSMENT PROJECT, AND (10) RECOMMENDATIONS.

AVAILABILITY: INTERNATIONAL JOINT COMMISSION, GREAT LAKES REGIONAL OFFICE, P. O. BOX 32869, DETROIT, MI 48232-2869

IRIS ACCESSION NUMBER: EW010533

PUBLICATION DATE: 84

TITLE: GRADUATE PROGRAMS IN THE PHYSICAL SCIENCES & MATHEMATICS 1984 (BOOK 5).

PERSONAL AUTHOR: CONLEY, DIANE; AND OTHERS

DESCRIPTOR: *CANADA; *DEGREE PROGRAMS; *GRADUATE STUDY; *HIGHER EDUCATION; *MATHEMATICS; *MATHEMATICS EDUCATION; *PHYSICAL SCIENCES; *PROGRAM DESCRIPTIONS; *SCIENCE EDUCATION; *SCIENCES; *UNITED STATES

DESCRIPTIVE NOTE: 800P. PRICE: $19.95; STOCK NO. 2219

ABSTRACT: THIS GUIDE LISTS GRADUATE PROGRAMS IN THE PHYSICAL SCIENCES AND MATHEMATICS IN THE UNITED STATES AND CANADA. DIRECTORIES INDICATE WHICH UNIVERSITIES OFFER WHAT DEGREES AND ALSO PROVIDE DESCRIPTIVE INFORMATION REGARDING THE PROGRAMS AT EACH INSTITUTION.

AVAILABILITY: PETERSON'S GUIDE, P. O. BOX 2123, PRINCETON, NJ 08540

IRIS ACCESSION NUMBER: EW010534
PUBLICATION DATE: 84

TITLE: GRADUATE PROGRAMS IN ENGINEERING & APPLIED SCIENCES 1984 (BOOK 4).

PERSONAL AUTHOR: CONLEY, DIANE; LAITY, JAMES

DESCRIPTOR: *APPLIED SCIENCES; *CANADA; *DEGREE PROGRAMS; *GRADUATE STUDY; *HIGHER EDUCATION; *PHYSICAL SCIENCES; *PROGRAM DESCRIPTIONS; *SCIENCES; *SCIENCE EDUCATION; *TECHNOLOGY; *UNITED STATES

DESCRIPTIVE NOTE: 650P. PRICE: $17.95; STOCK NO. 2200

ABSTRACT: THIS GUIDE LISTS GRADUATE PROGRAMS IN ENGINEERING AND THE APPLIED SCIENCES IN THE UNITED STATES AND CANADA. DIRECTORIES INDICATE WHICH UNIVERSITIES OFFER WHAT DEGREES AND ALSO PROVIDE DESCRIPTIVE INFORMATION REGARDING THE PROGRAMS AT EACH INSTITUTION.

AVAILABILITY: PETERSON'S GUIDES, P. O. BOX 2123, PRINCETON, NJ 08540

IRIS ACCESSION NUMBER: EW010535

PUBLICATION DATE: 84

TITLE: GRADUATE PROGRAMS IN THE BIOLOGICAL, AGRICULTURAL, AND HEALTH SCIENCES 1984 (BOOK 3).

PERSONAL AUTHOR: CONLEY, DIANE; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CANADA; *BIOLOGY; *GRADUATE STUDY; *DEGREE PROGRAMS; *HIGHER EDUCATION; *HEALTH; *HEALTH SCIENCES; *PROGRAM DESCRIPTIONS; *SCIENCE EDUCATION; *SCIENCES; *UNITED STATES

DESCRIPTIVE NOTE: 1,800P. PRICE: $23.95; STOCK NO. 2197

ABSTRACT: THIS GUIDE LISTS GRADUATE PROGRAMS IN BIOLOGY, AGRICULTURE, AND THE HEALTH SCIENCES IN CANADA AND THE UNITED STATES. DIRECTORIES INDICATE WHICH UNIVERSITIES OFFER WHAT DEGREES AND ALSO PROVIDE DESCRIPTIVE INFORMATION REGARDING THE PROGRAMS AT EACH INSTITUTION.

AVAILABILITY: PETERSON'S GUIDE, P. O. BOX 2123, PRINCETON, NJ 08540

IRIS ACCESSION NUMBER: EW010537

PUBLICATION DATE: 77

TITLE: HANDBOOK FOR TEACHERS OF ADULT OCCUPATIONAL EDUCATION.

DESCRIPTOR: *ADULT LEARNERS; *EVALUATION; *HANDBOOKS; *INSTRUCTION; *INSTRUCTOR TRAINING; *LEARNING; *PLANNING; *TEACHING METHODS; *TEACHER EDUCATION; *TRAINING

DESCRIPTIVE NOTE: 96P.
ABSTRACT: THIS HANDBOOK IS DESIGNED TO BE USED FOR DEVELOPING INSTRUCTORS FOR INSTRUCTING ADULTS. IT CAN BE USED PRIOR TO TEACHING OR AS PART OF AN INSERVICE PROGRAM. INCLUDED ARE (1) FACTORS AFFECTING LEARNING, (2) PRINCIPLES OF LEARNING, (3) INSTRUCTIONAL TECHNIQUES, (4) INSTRUCTIONAL AIDS, (5) EVALUATION, (6) COURSES OF STUDY, (7) PLANNING, AND (8) MANAGEMENT.

AVAILABILITY: THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT, BUREAU OF OCCUPATIONAL EDUCATION CURRICULUM DEVELOPMENT, ALBANY, NY 12234

IRIS ACCESSION NUMBER: EW010538

PUBLICATION DATE: AUG 78

TITLE: SO YOU'RE HELPING ADULTS LEARN.

DESCRIPTOR: *ADULT LEARNERS; *INSTRUCTION; *PLANNING; *TEACHING METHODS

DESCRIPTIVE NOTE: 20P.

ABSTRACT: THE PURPOSE OF THIS BOOKLET IS TO PROVIDE A BRIEF REVIEW OF ADULT CHARACTERISTICS AND TEACHING METHODS FOR THE NEW TEACHER OF ADULTS. SECTIONS ARE INCLUDED ON VARIOUS ASPECTS OF TEACHING INCLUDING PLANNING AND INSTRUCTION.

AVAILABILITY: WISCONSIN BOARD OF VOCATIONAL, TECHNICAL AND ADULT EDUCATION, MADISON, WI

IRIS ACCESSION NUMBER: EW010539

PUBLICATION DATE: 78

TITLE: VICTIM RESCUE - INSTRUCTOR'S MANUAL.

DESCRIPTOR: *ACCIDENT PREVENTION; *EMERGENCY RESCUE; *INSTRUCTION; *INSTRUCTOR'S MANUAL; *POSTSECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 128P.

ABSTRACT: THIS MANUAL WAS DEVELOPED TO BE A SUPPLEMENT TO BASIC EMT-A TRAINING AND TO SERVE AS A BASIS FOR SPECIAL COURSES FOR RESCUE PERSONNEL. SEVENTEEN LESSONS ARE INCLUDED. TOPICS COVERED INCLUDE RESCUE CARRIES AND DRAGS, KNOTS, RIGGING, SHORING AND TUNNELING, CUTTING TORCHES, GAS MASKS, ELECTRICAL EMERGENCIES, AND SEVERE STORMS.

AVAILABILITY: INSTRUCTIONAL MATERIALS LABORATORY, TRADE AND INDUSTRIAL EDUCATION, THE OHIO STATE UNIVERSITY, 1885 NEIL AVENUE, ROOM 112, COLUMBUS, OH 43210

IRIS ACCESSION NUMBER: EW010540
PUBLICATION DATE: 83

TITLE: SAFETY OF EXISTING DAMS: EVALUATION AND IMPROVEMENT.

DESCRIPTOR: *DAMS; *DECISION ANALYSIS; *EVALUATION; *HYDROLOGY; *INSPECTION; *RESERVOIRS; *SAFETY; *WATER RESOURCES; *WATER STORAGE

DESCRIPTIVE NOTE: 354P. PRICE: $16.50

ABSTRACT: THIS REPORT COVERS DAM SAFETY (CAUSES OF FAILURES, FIELD INSPECTIONS, MAINTENANCE, RECORDS, EVALUATION OF SAFETY, AND EMERGENCY ACTION PLANNING), RISK-BASED DECISION ANALYSIS, HYDROLOGIC AND HYDRAULIC CONSIDERATIONS, GEOLOGIC AND SEISMOLOGICAL CONSIDERATIONS, CONCRETE AND MASONRY DAMS, EMBANKMENT DAMS, APPURTENANT STRUCTURES, RESERVOIR PROBLEMS, AND INSTRUMENTATION. A GLOSSARY IS INCLUDED.

AVAILABILITY: NATIONAL RESEARCH COUNCIL, NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVE., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW010541

PUBLICATION DATE: OCT 83

TITLE: FILTRATION AND FLOCCULATION IN INDUSTRIAL PROCESSES. 1973-OCTOBER, 1983 (CITATIONS FROM THE BHRA FLUID ENGINEERING DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *DESIGN; BIBLIOGRAPHIES; *FILTRATION; *FLOCCULATION; *INDUSTRIAL WASTES; *EQUIPMENT; *STANDARDS; *THEORY

DESCRIPTIVE NOTE: 136P. PRICE CODE: PC N01/MF N01; PB84-851732

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERING THEORY, DESIGN, DEVELOPMENT, EVALUATIONS, AND STANDARDS FOR FILTRATION AND FLOCCULATION TECHNIQUES AND EQUIPMENT USED IN VARIOUS INDUSTRIAL PROCESSES. APPLICATIONS INCLUDE AIR FILTRATION, DUST COLLECTION, WATER FILTRATION, DEWATERING, AND FLOCCULANT SEPARATION. A VARIETY OF FILTERS AND FLOCCULATION MECHANISMS ARE DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 189 CITATIONS, 31 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010542

PUBLICATION DATE: DEC 82

TITLE: LIMING OF ACIDIFIED WATERS: A REVIEW OF METHODS AND EFFECTS ON AQUATIC ECOSYSTEMS.

PERSONAL AUTHOR: FRASER, J. E.; BRITT, D. L.
DESCRIPTOR: *AQUATIC HABITATS; *ACIDIFIED WATER; *ECOLOGY; *FISH; *LIME; *LIMING TECHNIQUES

DESCRIPTIVE NOTE: 209P. PRICE CODE: PC A10; PB84-120005

ABSTRACT: THE REPORT SUMMARIZES CURRENT INFORMATION ON LIMING AND HOW IT RELATES TO AQUATIC HABITATS THAT ARE POTENTIALLY IMPACTED BY THE ACIDIFICATION PROCESS. PRIMARY EMPHASIS IS ON THE FISHERY RESOURCE. LIMING IS DEFINED AS THE ADDITION OF ANY BASE MATERIAL TO NEUTRALIZE SURFACE WATERS, SEDIMENTS, AND SOILS. INTRODUCTORY INFORMATION DISCUSSES ACID-SENSITIVE REGIONS AND ASSOCIATED AQUATIC FISHERIES AND THE EFFECTS OF ACIDIFICATION ON FISH. THE REMAINING CHAPTERS ADDRESS PREVENTATIVE AND MITIGATIVE LIMING, LIMING TECHNIQUES, ECOLOGICAL RESPONSES TO LIMING OF AQUATIC ECOSYSTEMS, AND INFORMATION NEEDS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010543

PUBLICATION DATE: JUL 83

TITLE: LITERATURE RELEVANT TO REMOTE SENSING OF WATER QUALITY.

PERSONAL AUTHOR: MIDDLETON, E. M.; MARCELL, R. F.

DESCRIPTOR: *BIBLIOGRAPHIES; *DATA ANALYSIS; *MEASUREMENT; *MONITORING; *RESEARCH; *REMOTE SENSING; *WATER CHARACTERISTICS; *WATER QUALITY

DESCRIPTIVE NOTE: 98P. PRICE CODE: PC A05/MF A01; N83-34413/5

ABSTRACT: REFERENCES RELEVANT TO REMOTE SENSING OF WATER QUALITY WERE COMPILED, ORGANIZED, AND CROSS-REFERENCED. THE FOLLOWING GENERAL CATEGORIES WERE INCLUDED: (1) OPTICAL PROPERTIES AND MEASUREMENT OF WATER CHARACTERISTICS; (2) INTERPRETATION OF WATER CHARACTERISTICS BY REMOTE SENSING, INCLUDING COLOR, TRANSPARENCY, SUSPENDED OR DISSOLVED INORGANIC MATTER, BIOLOGICAL MATERIALS, AND TEMPERATURE; (3) APPLICATION OF REMOTE SENSING FOR WATER QUALITY MONITORING; (4) APPLICATION OF REMOTE SENSING ACCORDING TO WATER BODY TYPE; AND (5) MANIPULATION, PROCESSING AND INTERPRETATION OF REMOTE SENSING DIGITAL WATER DATA.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010544

PUBLICATION DATE: OCT 83

TITLE: PERCOLATION TECHNIQUES FOR WATER QUALITY CONTROL AND WASTE TREATMENT. 1977-OCTOBER 1983 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *GROUNDWATER; *OPERATIONS (WASTEWATER); MODELS; *PERCOLATION TECHNIQUES; *SOIL PERCOLATION; *RESEARCH REPORTS; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 333P. PRICE CODE: PC N01/MF N01; PB84-351653

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING PERCOLATION TECHNIQUES FOR WATER QUALITY CONTROL AND WASTE TREATMENT. WASTE WATER TREATMENT, GROUND WATER RECHARGE, AND SOIL WATER MOVEMENT ARE DISCUSSED. EFFECTS OF WASTES ON GROUND WATER, CHARACTERISTICS OF PERCOLATION OF WASTES, IRRIGATION WATER, SOIL PERCOLATION TESTS, AND VIRUS TRANSPORT IN SOIL ARE INCLUDED. ALSO DISCUSSED ARE PERCOLATION MATHEMATICAL ANALYSIS AND MODELING. (THIS UPDATED BIBLIOGRAPHY CONTAINS 314 CITATIONS, 22 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010545

PUBLICATION DATE: OCT 83

TITLE: WATER TREATMENT: DISINFECTANTS AND ANTISEPTICS. 1976-OCTOBER, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *ANTISEPTICS; *DISINFECTANTS; *DISINFECTION; *MANAGEMENT; *OPERATIONS (WASTEWATER); *ORGANIC COMPOUNDS; *POLICIES; *RESEARCH REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 93P. PRICE CODE: PC N01/MF N01; PB84-351716

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING TECHNIQUES, MATERIALS, AND EQUIPMENT USED IN THE DISINFECTION OF DOMESTIC AND INDUSTRIAL WASTE WATERS. TOPICS INCLUDE CHLORINATION AND ALTERNATIVE PROCESSES, TOXICITY STUDIES, AND THE MANAGEMENT ASPECTS OF WASTE WATER TREATMENT. THE EFFECTS OF ORGANIC COMPOUNDS, AND GOVERNMENT POLICY CONSIDERATIONS ARE ALSO TREATED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 138 CITATIONS, 63 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010546

TITLE: HAZARDOUS MATERIALS SPILL WARNING SYSTEM.

DESCRIPTOR: *AUDIOVISUAL AIDS; *DETECTION; *HAZARDOUS MATERIALS; *INSTRUMENTATION; *INSTRUCTIONAL MATERIALS; *MONITORING; POSTSECONDARY EDUCATION; *VIDEOCASETTES; *WATER QUALITY

DESCRIPTIVE NOTE: RENTAL PRICE: $15.00; 10 MINUTE COLOR

3/4" U-MATIC VIDEOCASSETTE.

ABSTRACT: SHOWS THE MOBILE MONITORING SYSTEM USED TO DETECT SPILL OF HAZARDOUS MATERIALS IN NATURAL WATER WAYS. EXPLAINS THE DETECTION INSTRUMENTATION IN DETAIL.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010547

PUBLICATION DATE: 83

TITLE: OCEAN DUMPING QUANDRY.

PERSONAL AUTHOR: SQUIRES, DONALD F.

DESCRIPTOR: *NATURAL RESOURCES; *OCEANS; *OCEAN DUMPING; *POLLUTION CONTROL; *WASTES; *WASTE DISPOSAL; *WATER QUALITY

DESCRIPTIVE NOTE: 226P. PRICE: $39.50 CLOTH; $10.95 PAPER.

ABSTRACT: THE BOOK IS A NON-TECHNICAL AND EASILY UNDERSTOOD DESCRIPTION OF THE SOCIETAL PROBLEMS ASSOCIATED WITH DISPOSITION OF WASTES-PARTICULARLY BY DEPOSITING ("DUMPING") THEM IN COASTAL WATERS, SPECIFICALLY IN THE NEW YORK BIGHT. MUCH OF THE INFORMATION CAME FROM THE NOAA MARINE ECOSYSTEM ANALYSIS PROGRAM (MESA). THE BOOK DEFINES THE AREA PHYSICALLY, DISCUSSES THE TOTAL RESOURCE INVOLVED (FISHERIES, PEOPLE RELATED INDUSTRY, MINERAL RESOURCES), THE LEGAL ASPECTS, THE ECONOMIC CONSIDERATIONS AND FINALLY ATTEMPTS A GLIMPSE INTO THE FUTURE. THERE ARE 28 PAGES OF REFERENCES.

AVAILABILITY: STATE UNIVERSITY OF NEW YORK PRESS, ALBANY, NY 12246

IRIS ACCESSION NUMBER: EW010548

PUBLICATION DATE: 83

TITLE: TURBIDITY IN THE AQUATIC ENVIRONMENT: ENVIRONMENTAL FACTOR IN FRESH AND OCEANIC WATERS.

PERSONAL AUTHOR: WILBUR, CHARLES G.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *AQUATIC ENVIRONMENT; ECOLOGY; ENVIRONMENTAL IMPACT; *ESTUARIES; *FRESH WATER; *OCEANS; *TURBIDITY; REMOTE SENSING

DESCRIPTIVE NOTE: 133P. PRICE: $18.75

ABSTRACT: THIS BOOK PROVIDES A REVIEW OF SELECTED PUBLISHED MATERIAL UNTIL THE END OF 1980 AND REFLECTS THE OVERALL STATUS OF AQUATIC TURBIDITY UNTIL THAT TIME. TOPICS PRESENTED INCLUDE PHYSICAL ASPECTS RELATED TO TURBIDITY, ECOLOGICAL EFFECTS, PHYSIOLOGICAL EFFECTS, REMOTE SENSING, DYNAMICS OF SUSPENDED PARTICLES, ESTUARIES, GEOGRAPHICAL

STUDIES, AND ENTRANCE OF PARTICULATE MATTER INTO OCEANS.
AVAILABILITY: CHARLES C. THOMAS, PUBLISHER, 2600 S. FIRST STREET, SPRINGFIELD, IL 62717

IRIS ACCESSION NUMBER: EW010549

PUBLICATION DATE: 83

TITLE: ACID DEPOSITION: ATMOSPHERIC PROCESSES IN EASTERN NORTH AMERICA.

DESCRIPTOR: *ACID DEPOSITION; *ECOLOGY; *NITROGEN; *NORTH AMERICA; *PLANNING; *POLICIES; *RESEARCH; *SULFUR; *REGULATIONS; *SOIL; *WATER

DESCRIPTIVE NOTE: 375P. PRICE: $16.50

ABSTRACT: ON A REGIONAL BASIS, IT HAS BEEN DEMONSTRATED THAT THERE IS A DIRECT LINEAR RELATIONSHIP BETWEEN ACID DEPOSITION AND EMISSIONS OF OXIDES OF SULFUR AND NITROGEN. SUCH CONSTITUENTS FORM ACIDS THROUGH COMPLEX TRANSFORMATION PROCESSES WHEN THEY INTERACT WITH SOIL AND WATER. SPECIFIC LOCAL SOURCE/RECEPTOR RELATIONSHIPS CANNOT BE PREDICTED. HOWEVER, THIS REPORT SUMMARIZES CURRENT SCIENTIFIC UNDERSTANDING ABOUT THE RELATIONS BETWEEN EMISSIONS OF ACID-FORMING PRECURSOR GASES AND DRY OR WET ACID DEPOSITION (ACID RAIN). THE AIM IS TO AID POLICY MAKERS INVOLVED IN REGULATORY DECISION MAKING AND IN SETTING RESEARCH PRIORITIES.

AVAILABILITY: NATIONAL RESEARCH COUNCIL, NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVE., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW010550

PUBLICATION DATE: 83

TITLE: CLEAN AIR ACT HANDBOOK.

PERSONAL AUTHOR: BROMBERG, J. PHILLIP

DESCRIPTOR: *AIR POLLUTION; *CLEAN AIR ACT; *COMPILATIONS; *EMISSION REDUCTION; *HANDBOOKS; *LEGISLATION; *REGULATIONS; *TECHNOLOGY

DESCRIPTIVE NOTE: 225P. PRICE: $38.00

ABSTRACT: THIS IS A COMPREHENSIVE, PRACTICAL GUIDE TO THE CLEAN AIR ACT, WHICH OFFERS AN OVERVIEW OF CURRENT LEGISLATION, REGULATIONS AND IMPLEMENTATION OF THE ACT. THE HANDBOOK FURTHER DISCUSSES POLLUTION TECHNOLOGY, TECHNOLOGICAL COMPLIANCE, AND EMISSION REDUCTION TECHNOLOGIES.

AVAILABILITY: GOVERNMENT INSTITUTES, 966 HUNGERFORD DRIVE, #24, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW010551
PUBLICATION DATE: 83

TITLE: ENERGY FROM BIOMASS AND WASTES, VII.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *BIOMASS; *CONFERENCE PROCEEDINGS; *ENERGY; *ETHANOL; *METHANOL; *METHANE; *WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 1417P. PRICE: $100.00

ABSTRACT: THIS BOOK IS A COLLECTION OF PAPERS FROM ICT'S SEVENTH SYMPOSIUM ON BIOMASS AND WASTES, HELD JANUARY 14-18, 1983, IN LAKE BUENA VISTA, FLA. THE PUBLICATION CONTAINS 55 PAPERS ON SUCH TOPICS AS BIOMASS PRODUCTION AND PROCUREMENT, COMBUSTION, BIOLOGICAL AND THERMAL GASIFICATION, LIQUEFACTION, LANDFILL METHANE PRODUCTION, ECONOMICS, METHANOL AND ETHANOL, AND FUNDED PROGRAMS.

AVAILABILITY: INSTITUTE OF GAS TECHNOLOGY, 3424 SOUTH STATE STREET, CHICAGO, IL 60616

IRIS ACCESSION NUMBER: EW010552

PUBLICATION DATE: 83

TITLE: THE HAZARDOUS WASTE CONSULTANT.

DESCRIPTOR: *BIBLIOGRAPHIES; *ECONOMICS; *HAZARDOUS WASTES; *MANAGEMENT; *REGULATIONS; *TECHNOLOGY; *WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 161P. PRICE: $350.00/YEAR SUBSCRIPTION.

ABSTRACT: THIS IS THE FIRST ISSUE OF A BIMONTHLY PERIODICAL BEING PRESENTED AS A SOURCE OF TECHNICAL INFORMATION FOR INDUSTRY, CONSULTANTS, DESIGN ENGINEERS, AND GOVERNMENT SPECIALISTS IN HAZARDOUS WASTE MANAGEMENT. THE HAZARDOUS WASTE CONSULTANT WILL ADDRESS THE FOLLOWING AREAS: HAZARDOUS WASTE TECHNOLOGY, FEDERAL AND STATE REGULATIONS, WASTE MANAGEMENT ECONOMICS, LEGAL DEVELOPMENTS, AND PERIODIC UPDATES ON COMMERCIAL DISPOSAL FACILITIES, R & D PROJECTS, AND SUPERFUND SITES. ARTICLES ARE GENERALLY TECHNICAL ANALYSES AND INTERPRETATION. THE FIRST ISSUE ALSO INCLUDES A BIBLIOGRAPHIC LISTING OF 139 ARTICLES AND PUBLICATIONS OF INTEREST TO PROFESSIONALS IN HAZARDOUS WASTE MANAGEMENT.

AVAILABILITY: MCCOY AND ASSOCIATES, 13131 W. CEDAR DRIVE, LAKEWOOD, CO 80228

IRIS ACCESSION NUMBER: EW010553

TITLE: PROCEEDINGS: ENGINEERING FOR WATER SUPPLY IN TODAY'S ECONOMY.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *ECONOMICS; *FACILITIES; *MAINTENANCE; *OPERATIONS (WATER); *WATER STORAGE; *WATER SUPPLY

DESCRIPTIVE NOTE: 104P. PRICE: $15.00

ABSTRACT: PROCEEDINGS OF THE 25TH ANNUAL PUBLIC WATER SUPPLY ENGINEER'S CONFERENCE HAVE BEEN PUBLISHED. ELEVEN PAPERS ARE INCLUDED ON SUCH TOPICS AS EXTENDING THE USEFUL LIFE OF CONCRETE STRUCTURES, UPGRADING EXISTING PLANTS, EFFECTIVE USE OF WATER STORAGE, AND FUNDING FOR THE FUTURE.

AVAILABILITY: ENGINEERING PUBLICATIONS OFFICE, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, 112 ENGINEERING HALL, 1308 W. GREEN STREET, URBANA, IL 61801

IRIS ACCESSION NUMBER: EW010554

PUBLICATION DATE: 79

TITLE: ESTABLISHMENT OF WATER QUALITY MONITORING PROGRAMS.

PERSONAL AUTHOR: EVERETT, L. G.; SCHMIDT, K. D.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *MONITORING; GROUNDWATER; *POLLUTION CONTROL; SURFACE WATER; WASTEWATER; *WATER QUALITY; WATER RESOURCES

DESCRIPTIVE NOTE: 370P. PRICE: $37.00

ABSTRACT: THIS IS THE PROCEEDINGS OF A SYMPOSIUM. THE PUBLICATION FOCUSES ON IMPORTANT ASPECTS OF WATER QUALITY MONITORING AND ADDRESSES THE FOUR MAJOR COMPONENTS OF SURFACE WATER, SOIL WATER, GROUNDWATER AND WASTEWATER POLLUTANT SOURCES.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW010555

PUBLICATION DATE: 83

TITLE: INTERNATIONAL SYMPOSIUM ON HYDROMETEOROLOGY PROCEEDINGS.

PERSONAL AUTHOR: JOHNSON, A. IVAN; CLARK ROBERT A.

DESCRIPTOR: *ACID RAIN; *CLIMATE; *CONFERENCE PROCEEDINGS; *DATA ACQUISITION; *HYDROMETEOROLOGY; *FORECASTING; *INSTRUMENTATION; *MODELING; *PLANNING; *WEATHER MODIFICATION; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 593P. PRICE: $55.00

ABSTRACT: THE 93 PAPERS IN THIS PROCEEDINGS VOLUME PROVIDE BACKGROUND MATERIAL FOR THE MANY APPLICATIONS OF HYDROMETEOROLOGY BY BOTH METEOROLOGISTS AND ENGINEERS. THE PAPERS ILLUSTRATE THE DIVERSE INTERESTS OF THE SEVERAL PARTICIPATING SOCIETIES AND OF THE NUMEROUS SCIENTISTS FROM THE FEDERAL, STATE, UNIVERSITY, AND PRIVATE SECTORS. THIS VOLUME IS ORGANIZED INTO THE FOLLOWING EIGHT SECTIONS: INSTRUMENTATION AND DATA ACQUISITION, HYDROLOGIC MODELING AND FORECASTING, WATER SUPPLY AND WATER RESOURCES, LONG-TERM PLANNING FOR WATER QUALITY, DROUGHT AND CLIMATE, WEATHER MODIFICATION, ACID RAIN, AND PROBABLE MAXIMUM PRECIPITATION AND FREQUENCY FOR DESIGN.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW010556

PUBLICATION DATE: 81

TITLE: SATELLITE HYDROLOGY.

PERSONAL AUTHOR: DEUTSCH, M.; AND OTHERS

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *GROUNDWATER; *HYDROLOGY; *MANAGEMENT; *METEOROLOGY; *WETLANDS; *REMOTE SENSING; *SURFACE WATER; *WATER QUALITY; *WATER USE

DESCRIPTIVE NOTE: 730P. PRICE: $91.00

ABSTRACT: THIS IS THE PROCEEDINGS OF A CONFERENCE ON REMOTE SENSING HELD IN SIOUX FALLS, SOUTH DAKOTA. THE PUBLICATION CONTAINS CHAPTERS ON SPACE TECHNOLOGY APPLIED TO METEOROLOGY, SNOW AND ICE, SURFACE WATER, SOIL MOISTURE, WATER QUALITY AND ENVIRONMENT, GROUNDWATER, WETLANDS, COASTAL ZONE, HYDRO DATA RELAY, AND WATER USE, AND MANAGEMENT.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW010557

PUBLICATION DATE: 81

TITLE: UNIFIED RIVER BASIN MANAGEMENT.

PERSONAL AUTHOR: NORTH, R. M.; AND OTHERS

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *MANAGEMENT; *PLANNING; *POLICIES; *RIVERS; *RIVER BASINS; *WATER RESOURCES

DESCRIPTIVE NOTE: 654P. PRICE: $63.00

ABSTRACT: THIS PUBLICATION IS THE PROCEEDINGS OF A SYMPOSIUM HELD IN GATLINBURG, TENN. ALL THE PAPERS FOCUS ON RIVER BASIN MANAGEMENT.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW010558
PUBLICATION DATE: 82

TITLE: UNIFIED RIVER BASIN MANAGEMENT - STAGE II.

PERSONAL AUTHOR: ALLEE, D. J.; AND OTHERS

DESCRIPTOR: *CASE STUDIES; *MANAGEMENT; *PLANNING; *RIVERS; *WATER RESOURCES; *WATER QUALITY

DESCRIPTIVE NOTE: 500P. PRICE: $53.00

ABSTRACT: THE 44 PAPERS PUBLISHED IN THIS VOLUME CONTINUES THE DEVELOPMENT OF CASE STUDIES OF INNOVATIONS, SUCCESSES, AND FAILURES TO ACHIEVE THE GOALS AND OBJECTIVES OF UNIFIED RIVER BASIN MANAGEMENT. IT ALSO PUTS EMPHASIS ON TRADITIONAL AND INNOVATIVE REFORM OF PLANNING CONCEPTS; FEDERAL, STATE, SUBSTATE, AND LOCAL ROLES, AS WELL AS THE BASIS FOR REFORM AND ADAPTATION TO THE NEEDS OF THE FUTURE.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW010559

PUBLICATION DATE: DEC 79

TITLE: DISSOLVED SOLIDS - WATER QUALITY STANDARDS CRITERIA DIGEST A COMPILATION OF STATE/FEDERAL CRITERIA.

DESCRIPTOR: *DIGESTS; *EPA; *DISSOLVED SOLIDS; *FEDERAL GOVERNMENT; *POLLUTANTS; *STANDARDS; *STATES; *WATER QUALITY

DESCRIPTIVE NOTE: 20P.

ABSTRACT: THIS DIGEST WAS COMPILED TO PROVIDE GENERAL INFORMATION TO THE PUBLIC AS WELL AS TO FEDERAL, STATE, AND LOCAL OFFICIALS. IT CONTAINS EXCERPTS FROM THE INDIVIDUAL STATE-FEDERAL WATER QUALITY STANDARDS ESTABLISHING POLLUTANT SPECIFIC CRITERIA FOR NAVIGABLE SURFACE WATERS. THIS DIGEST IS CONCERNED WITH DISSOLVED SOLIDS. SINCE WATER QUALITY STANDARDS ARE REVISED FROM TIME TO TIME, INDIVIDUAL ENTRIES IN THIS DIGEST MAY BE SUPERSEDED.

AVAILABILITY: U. S. EPA, OFFICE OF WATER, PLANNING AND STANDARD, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW010663

PUBLICATION DATE: FEB 84

TITLE: HOW TO PREPARE FOR A PERFORMANCE APPRAISAL INTERVIEW.

PERSONAL AUTHOR: KING, PATRICIA

DESCRIPTOR: *APPRAISAL; *MANAGEMENT; *PERFORMANCE APPRAISAL; *PERSONNEL; *TRAINING

DESCRIPTIVE NOTE: 66-69P.
ABSTRACT: THIS ARTICLE GIVES TRAINERS PRACTICAL INFORMATION TO USE IN A TRAINING SESSION ON PERFORMANCE APPRAISAL.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V38 N2

IRIS ACCESSION NUMBER: EW010664

PUBLICATION DATE: FEB 84

TITLE: WHO FORGOT THE LEADER'S GUIDE?

PERSONAL AUTHOR: STEWART, STACY C.

DESCRIPTOR: *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *RECOMMENDATIONS; *TEACHING GUIDES; *TRAINING

DESCRIPTIVE NOTE: 73-74P.

ABSTRACT: A LEADER'S GUIDE IS AN ESSENTIAL PART OF A TRAINING PROGRAM. ITEMS TO INCLUDE IN A LEADERS GUIDE ARE LISTED.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V38 N2

IRIS ACCESSION NUMBER: EW010665

PUBLICATION DATE: FEB 84

TITLE: HOW USEFUL ARE CASE STUDIES.

PERSONAL AUTHOR: ARMISTEAD, COLIN

DESCRIPTOR: *CASE STUDIES; *CURRICULUM DEVELOPMENT; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *TRAINING

DESCRIPTIVE NOTE: 75-77P.

ABSTRACT: DISCUSSED IS THE USE OF CASE STUDIES AS A TEACHING TOOL. TYPES OF CASE STUDIES AND USES OF CASE STUDIES ARE CONSIDERED.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V38 N2

IRIS ACCESSION NUMBER: EW010666

PUBLICATION DATE: FEB 84

TITLE: INNOVATIVE DIRECT FILTRATION PLANT INEXPENSIVE TO BUILD AND OPERATE.

PERSONAL AUTHOR: AINSWORTH, LEONARD D.

DESCRIPTOR: *COSTS; *DRINKING WATER; *FILTRATION; *FACILITIES; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 40-43P.

ABSTRACT: ECONOMICS IN WATER FILTRATION PLANT CONSTRUCTION AND OPERATION RESULT FROM USE OF DIRECT FILTRATION AND SELF-ENERGIZING HYDRAULICS. THE PLANT IN CALIFORNIA PROCESSES SURFACE WATER FROM RIVERS.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010667

PUBLICATION DATE: FEB 84

TITLE: WHEN TREATMENT TANKS LIFT AND TILT.

PERSONAL AUTHOR: CAPE, JAMES

DESCRIPTOR: *FACILITIES; *INSTRUMENTATION; *OPERATIONS (WASTEWATER); *TILT SENSING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 46-48P.

ABSTRACT: A TILT SENSING DEVICE IS DESCRIBED TO GIVE EARLY WARNING OF MOVEMENT OF MAJOR WASTEWATER TREATMENT PLANT STRUCTURES.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010668

PUBLICATION DATE: FEB 84
TITLE: EPA GRANT FUNDED PROJECTS AND CONSTRUCTION CLAIMS: MITIGATING GRANTEE EXPOSURE.

PERSONAL AUTHOR: MANZI, J. E.

DESCRIPTOR: *CONSTRUCTION; *CONSTRUCTION CLAIMS; *CONSTRUCTION GRANTS PROGRAM; *EPA; *FACILITIES; *PROJECT MANAGEMENT; *MANAGEMENT; *LIABILITY

DESCRIPTIVE NOTE: 50-53P.

ABSTRACT: THE EPA HAS PROVIDED GRANTEES WITH A CONSTRUCTION CLAIMS POLICY AS RELATED TO THE BUILDING OF FEDERALLY FUNDED TREATMENT PROJECTS.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010669

PUBLICATION DATE: FEB 84

TITLE: ATTACKING PRIVATE INFILTRATION/INFLOW SOURCES.

PERSONAL AUTHOR: PAULSON, RICHARD I.; AND OTHERS

DESCRIPTOR: *INFILTRATION; *INFLOW; *ILLINOIS; *LIABILITY; *MAINTENANCE; *PRIVATE SOURCES; *POLICIES; *REHABILITATION; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 54-59P.

ABSTRACT: THE TECHNICAL, POLITICAL, AND LEGAL IMPLICATIONS OF CORRECTING I/I SOURCES ARE EXAMINED.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010670

PUBLICATION DATE: FEB 84

TITLE: PAINT SYSTEMS FOR WATER TANKS.

PERSONAL AUTHOR: MCFARLAND, WAYNE E.

DESCRIPTOR: *MAINTENANCE; *PAINT; *SURFACE PREPARATION; *TANKS; *WATER TANKS

DESCRIPTIVE NOTE: 60-62,90P.

ABSTRACT: THE IMPORTANCE OF SURFACE PREPARATION CANNOT BE OVERSTRESSED IN SEARCH FOR QUALITY COATINGS. TYPES OF SURFACE PREPARATION AND COATINGS ARE DISCUSSED.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010671

PUBLICATION DATE: FEB 84
TITLE: SOLAR HEATED SLUDGE BED OVERCOMES WEATHER CONSTRAINTS.

PERSONAL AUTHOR: PFISTER, RALPH E.

DESCRIPTOR: *DEWATERING; *ENERGY; *FACILITIES; *ILLINOIS; *SLUDGE; *SOLAR HEAT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 63P.

ABSTRACT: ENCLOSING AN EXISTING SLUDGE BED WITH AN ACTIVE, SOLAR-HEATED BUILDING ENABLED YEAR-ROUND SLUDGE REMOVAL AT AN ILLINOIS TREATMENT FACILITY.

AVAILABILITY: PUBLIC WORKS; V115 N2

IRIS ACCESSION NUMBER: EW010672

PUBLICATION DATE: FEB 84

TITLE: CONSTRUCTION ARBITRATION AND MEDIATION.

PERSONAL AUTHOR: HOELLERING, MICHAEL F.

DESCRIPTOR: *ARBITRATION; *CONSTRUCTION DISPUTES; *COSTS; *MEDIATION; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 34-38P.

ABSTRACT: ALTERNATIVES TO LITIGATION RESOLVE CONSTRUCTION DISPUTES OUTSIDE THE COURTS. SUCH PRACTICES ARE FASTER AND LESS COSTLY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010673

PUBLICATION DATE: FEB 84

TITLE: NEGOTIATING CONSTRUCTION CLAIMS.

PERSONAL AUTHOR: DUCK, DONALD J.

DESCRIPTOR: *CONSTRUCTION DISPUTES; *CONSTRUCTION CLAIMS; *NEGOTIATION

DESCRIPTIVE NOTE: 39-41P.

ABSTRACT: OPEN-MINDED EXPLORATION OF THE MERITS OF CONSTRUCTION CLAIMS OFTEN AVOIDS INVOLVING THIRD PARTIES. TACTICS THAT PERMIT SETTLEMENT BY NEGOTIATION ARE DESCRIBED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010674

PUBLICATION DATE: FEB 84

TITLE: MEDIATION: AN ALTERNATIVE TO LITIGATION.

PERSONAL AUTHOR: MULLER, FRANK

DESCRIPTOR: *CONSTRUCTION CLAIMS; *COSTS; *CONTRACTS; *MEDIATION

DESCRIPTIVE NOTE: 42-43P.

ABSTRACT: IMPARTIAL THIRD PARTIES CAN HELP DISPUTANTS ARRIVE AT COMPROMISES. VARIOUS ASPECTS OF MEDIATION ARE CONSIDERED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010675

PUBLICATION DATE: FEB 84

TITLE: LIABILITY FOR NEW PRODUCTS.

PERSONAL AUTHOR: BARNES, BARRY; ULIN, DALE R.

DESCRIPTOR: *CONSTRUCTION CONTRACTS; *ENGINEERS; *EQUIPMENT; *LIABILITY; *PRODUCT LIABILITY; *SUPPLIERS

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DESCRIPTIVE NOTE: 44-47P.

ABSTRACT: LEGAL PITFALLS MAY STIFLE THE USE OF NEW PRODUCTS AND EQUIPMENT. SEVERAL CASES ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010676

PUBLICATION DATE: FEB 84

TITLE: KEY ELEMENTS OF CONSTRUCTION SPECIFICATIONS.

PERSONAL AUTHOR: IBBS, C. WILLIAM, JR.

DESCRIPTOR: *ARBITRATION; *CONSTRUCTION CLAIMS; *CONSTRUCTION SPECIFICATIONS; *CONTRACTS; *CONTRACT DISPUTES; *COSTS; *MANAGEMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 48-55P.

ABSTRACT: DIFFERING SITE CONDITIONS AND PERFORMANCE-RELATED DISPUTES ARE COMMON CAUSES OF CLAIMS. TYPES OF CONTRACT DISPUTES AND TECHNIQUES FOR RESOLVING THEM ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010677

PUBLICATION DATE: FEB 84

TITLE: WATERBORNE DISEASE OUTBREAKS--1946-1980: A THIRTY-FIVE-YEAR PERSPECTIVE.

PERSONAL AUTHOR: LIPPY, EDWIN C.; WALTRIP, STEVEN C.

DESCRIPTOR: *DISEASES; *DRINKING WATER; *HEALTH; *PUBLIC HEALTH; *TRENDS; *WATERBORNE DISEASES; *WATER QUALITY; *WATER TREATMENT; *WATER SUPPLY; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 60-67P.

ABSTRACT: THE NUMBER OF WATERBORNE DISEASE OUTBREAKS REPORTED SINCE 1966 INDICATES AN UPWARD TREND. PRESENTED IS AN ANALYSIS OF THE DATA FROM THESE OUTBREAKS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N2

IRIS ACCESSION NUMBER: EW010678

PUBLICATION DATE: FEB 84

TITLE: BLACK AND WHITE PRINTING PAPERS.

PERSONAL AUTHOR: POLI, BRUCE

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *PHOTOGRAPHY; *PRINT PAPERS; *VISUAL AIDS

DESCRIPTIVE NOTE: 34-36,39P.

ABSTRACT: DESCRIBED ARE PHOTOGRAPHIC PRINT PAPERS (BLACK AND WHITE) AND THEIR RECOMMENDED USES.

AVAILABILITY: TECHNICAL PHOTOGRAPHY; V16 N2

IRIS ACCESSION NUMBER: EW010679

PUBLICATION DATE: FEB 84

TITLE: RETURN FLOWS FROM SLUDGE TREATMENT.

PERSONAL AUTHOR: LAWLER, DESMOND F.; SINGER, PHILIP C.

DESCRIPTOR: *ANAEROBIC DIGESTERS; *DEWATERING; *DESIGN; *OPERATIONS (WASTEWATER); *RECOMMENDATIONS; *RESEARCH; *RETURN FLOWS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 118-126P.

ABSTRACT: THIS RESEARCH WAS DESIGNED TO INVESTIGATE FACTORS THAT INFLUENCE THE QUANTITY AND QUALITY OF RETURN FLOWS FROM ANAEROBIC DIGESTERS AND MECHANICAL DEWATERING DEVICES FROM WASTEWATER PLANTS AND TO CONSIDER SOME POSSIBLE ALTERNATIVES. RESULTS OF THE RESEARCH AND RECOMMENDATIONS FOR OPERATORS AND DESIGNERS ARE GIVEN.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N2

IRIS ACCESSION NUMBER: EW010680

PUBLICATION DATE: FEB 84

TITLE: DISINFECTION OF SECONDARY EFFLUENT WITH OZONE/UV.

PERSONAL AUTHOR: VENOSA, ALBERT A.; AND OTHERS

DESCRIPTOR: *DISINFECTION; *ECONOMICS; *OZONE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *RESEARCH; *WASTEWATER TREATMENT; *ULTRAVIOLET LIGHT

DESCRIPTIVE NOTE: 137-142P.

ABSTRACT: THIS STUDY WAS UNDERTAKEN TO DETERMINE IF OZONE AND UV IN COMBINATION PRODUCE A SYNERGISTIC EFFECT ON DISINFECTION AND IF SO, WHAT CONFIGURATION FAVORS SYNERGISM. FOR LARGE PLANTS UV AND OZONE IN A SEQUENTIAL ARRANGEMENT WAS MORE COST-EFFECTIVE THAN EITHER ALONE. FOR SMALLER PLANTS UV APPEARED TO BE THE BETTER OPTION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N2

IRIS ACCESSION NUMBER: EW010681

PUBLICATION DATE: FEB 84

TITLE: USE OF ARTIFICIAL WETLANDS TO REMOVE NITROGEN FROM WASTEWATER.

PERSONAL AUTHOR: GERSBERG, R. M.

DESCRIPTOR: *ARTIFICIAL WETLANDS; *COSTS; *FACILITIES; *NITROGEN; *NITROGEN REMOVAL; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 152-156P.

ABSTRACT: THIS REPORT DESCRIBES STUDIES WITH LARGER, DEMONSTRATION-SCALE ARTIFICIAL WETLANDS FOR REMOVING NITROGEN FROM SECONDARY WASTEWATER EFFLUENTS. RESULTS ARE REPORTED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N2

IRIS ACCESSION NUMBER: EW010683

PUBLICATION DATE: FEB 84

TITLE: COOPERATIVE SEPARATISM MARKS RALEIGH'S WATER/WASTEWATER OPERATIONS.

PERSONAL AUTHOR: HERSCH, PAUL

DESCRIPTOR: *ADMINISTRATION; *MANAGEMENT; *NORTH CAROLINA; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *UTILITIES; *WATER DISTRIBUTION; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 19,49P.

ABSTRACT: DESCRIBED IS THE MANAGEMENT OF WATER AND WASTEWATER OPERATIONS AT RALEIGH, NORTH CAROLINA. ORGANIZATION AND OPERATIONS ARE DISCUSSED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010684

PUBLICATION DATE: FEB 84

TITLE: CAREFUL ENGINEERING PRODUCES PLANT WITH SOUND PERFORMANCE, PLEASING AESTHETICS.

PERSONAL AUTHOR: MICHELS, CARL J.

DESCRIPTOR: *COSTS; *DESIGN; *FACILITIES; *EFFLUENTS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WISCONSIN

DESCRIPTIVE NOTE: 20-22P.

ABSTRACT: DESCRIBED IS A WASTEWATER TREATMENT FACILITY THAT WAS CONSTRUCTED IN WISCONSIN. THE PLANT USES A VARIETY OF

PROCESSES TO ACHIEVE HIGH QUALITY EFFLUENTS.
AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010685

PUBLICATION DATE: FEB 84

TITLE: BLUEPRINT FOR A JOINT POWER AGENCY.

PERSONAL AUTHOR: KENNEDY, DAVID D.; BRUCE, WAYNE A.

DESCRIPTOR: *CALIFORNIA; *DESIGN; *CONSTRUCTION; *JOINT POWER AGREEMENTS; *MANAGEMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *UTILITIES; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 26-29P.

ABSTRACT: POLITICAL HARMONY AND A SINGLE-PURPOSE GOAL WERE CONSTRIBUTING FACTORS IN THE SUCCESSFUL IMPLEMENTATION OF A JOINT POWER AGREEMENT BY FIVE LOCAL AGENCIES. DESCRIBED IS THE PROJECT TO DESIGN AND BUILD A WASTEWATER MANAGEMENT AND DISPOSAL SYSTEM IN AN AREA EAST OF SAN FRANCISCO.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010686

PUBLICATION DATE: FEB 84

TITLE: PORTABLE, COMPUTERIZED MONITOR KEEPS TABS ON WATER.

PERSONAL AUTHOR: DEININGER, ROLF A.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *COMPUTERS; *COMPUTER APPLICATIONS; *DATA COLLECTION; *INSTRUMENTS; *MONITORING; *WATER QUALITY

DESCRIPTIVE NOTE: 32-33,53P.

ABSTRACT: DESCRIBED IS AN ANALYTICAL INSTRUMENT THAT CAN BE COMBINED WITH A MICROCOMPUTER AND TAKEN NEARLY ANYWHERE TO CONTINUOUSLY MONITOR WATER QUALITY.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010687

PUBLICATION DATE: FEB 84

TITLE: I/I REHAB SUCCESS COMES WITH UNDERSTANDING SYSTEM BEHAVIOR.

PERSONAL AUTHOR: NOGAJ, RICHARD J.

DESCRIPTOR: *INFILTRATION; *INFLOW; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PLANNING; *REHABILITATION; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 36-38P.

ABSTRACT: DISCUSSED ARE A VARIETY OF WATER FLOW CHARACTERISTICS IN WASTEWATER COLLECTION SYSTEMS RELATED TO INFILTRATION AND INFLOW (I/I). REHABILITATION OF WASTEWATER COLLECTION SYSTEMS REQUIRES AN UNDERSTANDING OF SYSTEM FLOW BEHAVIOR AND ACCURATE DATA.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010688

PUBLICATION DATE: FEB 84

TITLE: GRINDER PUMP SOLUTION APPEALS TO RESIDENTS.

PERSONAL AUTHOR: BURNETT, THOMAS E.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *COLORADO; *GRINDER PUMPS; *OPERATIONS (WASTEWATER); *PLANNING; *PRESSURE SEWERS; *SEWERS; *TECHNOLOGY; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 39-41P.

ABSTRACT: DESCRIBED IS A PROJECT IN COLORADO THAT INSTALLED GRINDER PUMPS AND PRESSURE SEWERS IN A SMALL COLORADO COMMUNITY.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010689

PUBLICATION DATE: FEB 84

TITLE: IMPROVING WATER UTILITY MANAGEMENT.

PERSONAL AUTHOR: SHELL, RICHARD L.; DAMACHI, NICHOLAS A.

DESCRIPTOR: *COMPUTER APPLICATIONS; *DATA COLLECTION; *FORECASTING; *MANAGEMENT; *OPERATIONS (WATER); *PLANNING; *WATER RATES; *WATER DISTRIBUTION; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 42-44P.

ABSTRACT: DISCUSSED IS THE NEED FOR THE IMPROVEMENT OF WATER UTILITY MANAGEMENT AND SEVERAL ASPECTS OF MANAGEMENT THAT NEED TO BE CONSIDERED. THE APPLICATION OF COMPUTERS TO THE STUDY OF THESE PROBLEMS AND MANAGEMENT OF THESE WATER OPERATIONS IS CONSIDERED.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N2

IRIS ACCESSION NUMBER: EW010690
PUBLICATION DATE: NOV 83

TITLE: AERIAL PHOTOGRAPHY: ITS USE IN THE STUDY OF COASTAL EROSION AND POLLUTION. 1974-NOVEMBER, 1983 (CITATIONS FROM OCEANIC ABSTRACTS).

DESCRIPTOR: *AERIAL PHOTOGRAPHY; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *COASTAL AREAS; *EROSION; *OCEANS; *PHOTOGRAPHY; *POLLUTION; *SHORELINES; *SURVEYS

DESCRIPTIVE NOTE: 89P. PRICE CODE: PC N01/MF N01; PB84-352813

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING AERIAL PHOTOGRAPHY AND ITS USE AS A MEANS TO STUDY COASTAL SHORELINE PROBLEMS SUCH AS EROSION AND POLLUTION, AND TO SURVEY COASTAL AND LAND AREAS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 117 CITATIONS, 19 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010691

PUBLICATION DATE: DEC 83

TITLE: ASSESSMENT FOR FUTURE ENVIRONMENTAL PROBLEMS - OCEAN DUMPING.
PERSONAL AUTHOR: MENZIE, C. A.; AND OTHERS

DESCRIPTOR: *ENVIRONMENT; *OCEAN DUMPING; *OCEANS; *RESEARCH PRIORITIES; *RESOURCE ALLOCATIONS; *WASTE DISPOSAL; *RECOMMENDATIONS

DESCRIPTIVE NOTE: 160P. PRICE CODE: PC A08/MF A01; PB84-126770

ABSTRACT: THE OBJECTIVE OF THIS REPORT IS TO PROVIDE THE U. S. ENVIRONMENTAL PROTECTION AGENCY'S OFFICE OF STRATEGIC ASSESSMENT AND SPECIAL STUDIES WITH A TECHNICAL BASIS FOR MAKING DECISIONS ON RESEARCH PRIORITIES AND RESOURCE ALLOCATION AS THESE RELATE TO THE QUESTION OF OCEAN DUMPING. THE PROGRAM WAS ORGANIZED INTO FOUR TASKS. FIRST, HISTORICAL TRENDS IN WASTE GENERATION, DISPOSAL, AND LEGISLATIVE AND TECHNOLOGICAL FACTORS (AS OF 1982) WERE REVIEWED TO INDICATE THE LIKELIHOOD THAT A PARTICULAR WASTE TYPE WOULD BE OCEAN DUMPED IN THE FUTURE. SECOND, THE ENVIRONMENTAL IMPLICATIONS OF LAND-BASED ALTERNATIVES WERE REVIEWED TO PROVIDE BACKGROUND ON THE NATURE OF RISKS ASSOCIATED WITH THESE ALTERNATIVES. THIRD, THE ENVIRONMENTAL IMPLICATIONS OF OCEAN DISPOSAL WERE REVIEWED FOR WASTES AND THEIR CONSTITUENTS. FINALLY, BASED ON THE INFORMATION GENERATED IN THE FIRST THREE TASKS, RECOMMENDATIONS ARE PROVIDED ON FUTURE RESEARCH NEEDS AND THESE ARE ASSIGNED EITHER HIGH, MODERATE, OR LOW PRIORITY STATUS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010692
PUBLICATION DATE: JUN 83

TITLE: DEVELOPMENT DOCUMENT FOR EFFLUENT LIMITATIONS GUIDELINES AND STANDARDS FOR THE METAL FINISHING POINT SOURCE CATEGORY.

PERSONAL AUTHOR: KINCH, R.

DESCRIPTOR: *EFFLUENTS; *GUIDELINES; *INDUSTRIAL WASTES; *METAL FINISHING INDUSTRIES; *METALS; *OPERATIONS (WASTEWATER); *STANDARDS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 733P. PRICE CODE: PC A99/MF E04; PB84-115989

ABSTRACT: THE DEVELOPMENT DOCUMENT SUPPLIES SUPPORTING TECHNICAL INFORMATION TO THE ENVIRONMENTAL PROTECTION AGENCY'S LIMITS ON POLLUTANTS THAT METAL FINISHING FACILITIES MAY DISCHARGE TO WATER THAT GO ON TO PUBLICALLY OWNED TREATMENT WORKS. THE METAL FINISHING DEVELOPMENT DOCUMENT PROVIDES SPECIFIC BACKGROUND INFORMATION ON THE DEVELOPMENT OF EFFLUENT LIMITATIONS BASED ON 'BEST PRACTICABLE TECHNOLOGY' AND 'BEST AVAILABLE TECHNOLOGY' AND ESTABLISHES NEW SOURCE PERFORMANCE STANDARDS AND PRETREATMENT STANDARDS UNDER THE CLEAN WATER ACT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010693

PUBLICATION DATE: NOV 83

TITLE: DEVELOPMENT OF METHODS TO DEFINE WATER QUALITY EFFECTS OF URBAN RUNOFF.

PERSONAL AUTHOR: MANCINI, J. L.

DESCRIPTOR: *COSTS; *OPERATIONS (WASTEWATER); *SURFACE RUNOFF; *URBAN AREAS; *WATER QUALITY

DESCRIPTIVE NOTE: 162P. PRICE CODE: PC A08/MF A01; PB84-122928

ABSTRACT: THE PROJECTED COSTS FOR TREATING COMBINED SEWER OVERFLOWS AND URBAN RUNOFF NATIONWIDE ARE EXTREMELY LARGE, AND THEREFORE NECESSITATE THAT METHODS BE AVAILABLE TO QUANTITATIVELY EVALUATE THE RECEIVING WATER IMPACTS ASSOCIATED WITH THESE DISCHARGES. THIS REPORT SUMMARIZES THE RESULTS OF A STUDY EFFORT INVESTIGATING METHODS WHICH CAN BE EMPLOYED TO DEVELOP WET WEATHER WATER QUALITY CRITERIA WHICH COULD FORM PART OF THE BASIS FOR WET WEATHER STANDARDS. THIS PROJECT CONSIDERS SHORT-TERM WATER QUALITY IMPACTS THAT OCCUR DURING OR SHORTLY AFTER A STORM EVENT. EXAMPLES OF THE SHORT TERM IMPACTS ARE DISSOLVED OXYGEN DEPRESSIONS DUE TO RAPID OXIDATION OF CONTAMINANTS OR THE DEATH OF FISH AS A RESULT OF SHORT TERM INCREASES IN THE CONCENTRATION OF A TOXIC IN THE RECEIVING WATER.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010694

PUBLICATION DATE: DEC 83

TITLE: DISINFECTANTS: CHLORINE AND CHLORINE DIOXIDE. 1978-1983 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *CHLORINE; *CHLORINE DIOXIDE; *DISINFECTION; *SWIMMING POOLS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 136P. PRICE CODE: PC N01/MF N01; PB84-354793

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE ANTIMICROBIAL PROPERTIES OF CHLORINE AND CHLORINE DIOXIDE. THE USE OF CHLORINE FOR THE INACTIVATION OF VIRUSES, BACTERIA AND FUNGI IN WASTEWATER TREATMENT PLANTS IS DISCUSSED, INCLUDING THE MODE OF ACTION AND FACTORS INFLUENCING INACTIVATION. THE USE OF CHLORINE DIOXIDE AS AN ALTERNATIVE TO CHLORINE DISINFECTION IN WATER SUPPLIES AND SWIMMING POOLS IS ALSO DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 164 CITATIONS, 39 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010695

PUBLICATION DATE: SEP 83

TITLE: ESTIMATION OF COSTS FOR SMALL WATER SYSTEMS.

PERSONAL AUTHOR: DEB, ARUN K.; RICHARDS, WILLIAM G.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGIES; *DESIGN; *COSTS; *ESTIMATING; *FACILITIES; *MODELS; *OPERATIONS (WATER); *SMALL SYSTEMS; *WATER SYSTEMS; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 17P. PRICE CODE: PC A02/MF A01; AD-P001 906/7

ABSTRACT: THE WATER MANAGEMENT (WATMAN) MODEL HAS BEEN EXPANDED IN THIS STUDY SO AS TO COVER BOTH LARGE AND SMALL WATER SYSTEMS. IT IS A PARTICULARLY VERSATILE TOOL FOR ESTIMATING PRELIMINARY DESIGN COSTS FOR SMALL WATER SYSTEMS AS DATA APPROPRIATE TO SMALL SYSTEMS AND ALTERNATIVE TECHNOLOGY, ESPECIALLY FOR BOTTLED WATER DISTRIBUTION AND POINT-OF-USE TREATMENT, WAS COLLECTED AND USED TO DERIVE COST INFORMATION. COST FUNCTIONS FOR ESTIMATING CAPITAL AND OPERATIONS FOR SMALL WATER SYSTEMS HAVE BEEN DEVELOPED AND INCORPORATED INTO THE MODEL. WATMAN IS FLEXIBLE ENOUGH TO SIMULATE ALMOST ANY CONFIGURATIONS OF UP TO TEN WATER SYSTEMS AND A VARIETY OF UNIT PROCESSES IN ORDER TO CONDUCT PRELIMINARY DESIGNS AND ECONOMIC EVALUATIONS OF ALTERNATIVE TECHNOLOGIES AVAILABLE TO UTILITIES. SEVERAL TECHNOLOGIES CONSIDERED ESPECIALLY APPROPRIATE TO SMALL SYSTEMS WERE EXAMINED INCLUDING ALTERNATE SOURCES, CONVENTIONAL ADDITIONAL TREATMENT, PACKAGE PLANTS AND EQUIPMENT, REGIONALIZATION, AND DUAL WATER SYSTEMS, POINT-OF-USE TREATMENT, AND BOTTLED WATER DISTRIBUTION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010696

PUBLICATION DATE: AUG 83

TITLE: GROUNDWATER RESOURCES AND CONTAMINATION IN THE UNITED STATES. WORKSHOP PAPERS AND SUMMARY, WASHINGTON, DC, MARCH 14-15, 1983.

DESCRIPTOR: *CONTAMINATION; *COSTS; *GROUNDWATER; *MONITORING; *PUBLIC HEALTH; *RESEARCH; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 231P. PRICE CODE: PC A11/MF A01; PB84-126358

ABSTRACT: SIX PAPERS DELIVERED AT THE WORKSHOP ARE PRESENTED. THE PAPERS ADDRESS SUCH TOPICS AS PUBLIC HEALTH EFFECTS OF CONTAMINATED GROUNDWATER; IMPACTS, COSTS, AND TECHNIQUES FOR MITIGATION OF CONTAMINATED GROUNDWATER; CONTAMINANT MIGRATION IN GROUNDWATER; DETECTION AND MONITORING OF CONTAMINATED GROUNDWATER; AND USES OF DIFFERENT KINDS OF AQUIFERS. BIOGRAPHIES OF THE PAPERS' AUTHORS ARE INCLUDED. IT IS SUGGESTED THAT THE INSTITUTIONAL AND LEGAL PROCESSES NECESSARY TO BRING ABOUT THE CONTROL OF CONTAMINATION WITHIN STATES AND BETWEEN STATES BE EXAMINED. THE NEED FOR AN INVENTORY OF EXISTING RESEARCH IS IDENTIFIED, AND IT IS RECOMMENDED THAT RESEARCH BE CONDUCTED ON THE ATTENTUATION AND TRANSFORMATION OF CHEMICALS IN DIFFERENT TYPES OF AQUIFERS BY BIOLOGICAL, PHYSICAL, AND CHEMICAL MEANS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010697

PUBLICATION DATE: SEP 83

TITLE: LAND TREATMENT PROCESSES WITH CAPDET (COMPUTER-ASSISTED PROCEDURE FOR THE DESIGN AND EVALUATION OF WASTEWATER TREATMENT SYSTEM).

PERSONAL AUTHOR: MERRY, C. J.; AND OTHERS

DESCRIPTOR: *DESIGN; *COSTS; *CAPDET; *COMPUTER APPLICATIONS; *INFILTRATION; *LAND TREATMENT; *FACILITIES; *OVERLAND FLOW; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 91P. PRICE CODE: PC A05/MF A01; AD-A134

766/5

ABSTRACT: A SUMMARY OF THE FIRST-, SECOND-, AND THIRD-ORDER DESIGN STEPS FOR THE THREE LAND TREATMENT UNIT PROCESSES (SLOW INFILTRATION, RAPID INFILTRATION AND OVERLAND FLOW) WITHIN THE CAPDET MODEL IS PRESENTED. THE FIRST-ORDER DESIGN, CONSISTING OF THE BASIC SANITARY ENGINEERING PROCESSES FOR SLOW INFILTRATION, RAPID INFILTRATION, AND OVERLAND FLOW, IS DESCRIBED IN TERMS OF THE SELECTED PROCEDURES AND THE COMPUTER FORMAT. THE SECOND-ORDER DESIGN IS A DESCRIPTION OF THE QUANTITIES AND SIZES CALCULATED FOR EACH LAND TREATMENT PROCESS. THE THIRD-ORDER DESIGN IS THE CALCULATION OF THE UNIT PROCESS COSTS BY APPLYING PRICES TO THE QUANTITIES AND SIZES CALCULATED DURING THE SECOND-ORDER DESIGN STEP. (AUTHOR)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010698

PUBLICATION DATE: DEC 83

TITLE: MARINE DISPOSAL OF RADIOACTIVE WASTES. 1978-1983 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *INDUSTRIAL WASTES; *OCEANS; *RADIOACTIVE WASTES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 124P. PRICE CODE: PC N01/MF N01; PB84-854637

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE DISPOSAL OF HIGH AND LOW LEVEL LIQUID AND SOLID RADIOACTIVE WASTES IN THE SEA AND GROUND WATER. EMPHASIS IS ON THE DISPOSAL OF THE WASTES AT SEA. DISPOSAL UNDER AND ON THE SEA BED IS EXAMINED, AND THE MIGRATION AND CONCENTRATION OF RADIOACTIVE WASTES IN SEA WATER AND AQUATIC LIFE ARE INCLUDED. METHODOLOGY FOR MEASURING RADIOACTIVITY IS CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 140 CITATIONS, 10 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010699

PUBLICATION DATE: SEP 83

TITLE: METHOD FOR TREATING CONTAMINATED WASTEWATER.

PERSONAL AUTHOR: FOCHTMAN, E. G.; AND OTHERS

DESCRIPTOR: *FUELS; *HYDRAZINE; *INVENTIONS; *OPERATIONS (WASTEWATER); *PATENTS; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 12P. PRICE: $1.00

ABSTRACT: A METHOD IS DESCRIBED FOR TREATING HYDRAZINE-FUEL CONTAMINATED WASTEWATER IN WHICH HYDRAZINE, MONOMETHYL HYDRAZINE, UNSYMMETRICAL DIMETHYL HYDRAZINE AND DIMETHYLNITROSAMINE POLLUTANTS ARE EFFECTIVELY DECOMPOSED AT A CONTROLLED PH OF ABOUT 5 BY AN ULTRAVIOLET INDUCED CHLORINATION TREATMENT OF THE WASTEWATER.

AVAILABILITY: COMMISSIONER OF PATENTS, WASHINGTON, DC 20231

IRIS ACCESSION NUMBER: EW010700

PUBLICATION DATE: MAY 83

TITLE: PUBLIC INVOLVEMENT TECHNIQUES: A READER OF TEN YEARS EXPERIENCE AT THE INSTITUTE FOR WATER RESOURCES.

PERSONAL AUTHOR: CREIGHTON, J.; AND OTHERS

DESCRIPTOR: *INSTITUTE OF WATER RESOURCES; *PLANNING; *PUBLIC INVOLVEMENT; *PUBLIC PARTICIPATION; *POLICY; *WATER RESOURCES

DESCRIPTIVE NOTE: 485P. PRICE CODE: PC A21/MF A01; AD-A134 756/6

ABSTRACT: THE INSTITUTE FOR WATER RESOURCES (IWR), LIKE MOST GOVERNMENTAL ENTITIES, FOUND THE SEVENTIES WERE A DECADE OF CHALLENGE. IWR IS AN INTERDISCIPLINARY RESEARCH CENTER WHICH, THROUGH STAFF STUDIES OR FUNDING OF STUDIES BY CONSULTANTS, PROVIDES POLICY GUIDANCE AND RESEARCH AND DEVELOPMENT IN THE AREA OF WATER RESOURCES PLANNING TO THE U. S. ARMY CORPS OF ENGINEERS. AS SUCH, IWR PLAYED A CONSIDERABLE ROLE IN SHAPING THE CORPS OF ENGINEERS ADAPTION TO THE 1970'S. IT WAS A DECADE OF CHALLENGE, BUT IT WAS ALSO A DECADE OF CONTRIBUTION IN WHICH IWR WAS ABLE TO CONTRIBUTE SUBSTANTIALLY TO POLICY AND PROCEDURES WHICH RESULTED IN A MORE ADEQUATE BALANCING OF ECONOMIC, ENVIRONMENTAL, AND SOCIAL VALUES IN WATER RESOURCES DECISION MAKING. CENTRAL TO THIS CONTRIBUTION WAS IWR'S WORK IN PUBLIC INVOLVEMENT. THE GENESIS FOR THIS READER WAS TWO-FOLD: A RECOGNITION THAT A GREAT DEAL OF MATERIAL HAD BEEN DEVELOPED FOR IWR-SPONSORED TRAINING PROGRAMS WHICH MANY PRACTIONERS INSIDE AND OUTSIDE GOVERNMENT BELIEVED REPRESENTED AN IMPORTANT CONTRIBUTION TO THE FIELD OF PUBLIC INVOLVEMENT, AND THEREFORE DESERVED PUBLICATION; AND, A DESIRE TO PROVIDE RECOGNITION TO IWR'S CONTRIBUTION TO THE FIELD OVER THE PAST DECADE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010701

PUBLICATION DATE: OCT 83

TITLE: SIMULATION OF SPILLED OIL BEHAVIOR IN BAYS AND COASTAL WATERS.

PERSONAL AUTHOR: HESS, K. W.

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DESCRIPTOR: *BAYS; *COMPUTER SOFTWARE; *COMPUTER APPLICATIONS; *OCEANS; *OILSPILLS; *SIMULATIONS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 29P. PRICE CODE: PC A03/MA A01; PB84-122597

ABSTRACT: OILSPILL IS A COMPUTER PROGRAM DESIGNED TO FORECAST THE BEHAVIOR OF FLOATING OIL IN THE COASTAL ZONE. THE PROGRAM, WRITTEN IN FORTRAN IV, RUNS ON THE AFOS (AUTOMATION OF FIELD OPERATIONS AND SERVICES) DATA GENERAL ECLIPSE S/230 COMPUTER. IT CAN BE STORED ON FLOPPY DISK AND RETRIEVED WHEN IT IS TO BE RUN. THE PROGRAM, WHICH IS RUN AT THE ALPHANUMERIC DISPLAY MODULE (ADM), REQUIRES INPUT SUCH AS OIL SPILL LOCATION, MAP PARAMETERS, AND WIND AND WATER CURRENT FORECASTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010702

PUBLICATION DATE: SEP 83

TITLE: VERIFICATION OF MAPS COST ESTIMATING PROCEDURES.

PERSONAL AUTHOR: WALSKI, THOMAS M.; LINDSEY, ANITA K.

DESCRIPTOR: *COSTS; *ESTIMATING; *MAPS; *PLANNING; *WATER SUPPLY

DESCRIPTIVE NOTE: 11P. PRICE CODE: PC A02/MF A01; AD-P001 005/9

ABSTRACT: THE PURPOSE OF THIS STUDY WAS TO VERIFY THE METHODOLOGY AREAWIDE PLANNING STUDIES COST ESTIMATING PROCEDURE AGAINST AN INDEPENDENTLY DETERMINED SET OF COST DATA. FROM THIS KIND OF ANALYSIS IT IS POSSIBLE TO: DETERMINE THE ACCURACY OF THE INDIVIDUAL MODULES, IDENTIFY AND CORRECT MINOR SHORTCOMINGS OF THE PROGRAM, AND IDENTIFY POTENTIAL MAJOR PROGRAM MODIFICATIONS AND ADDITIONS. THIS PAPER HAS BEEN PREPARED TO PRESENT THE RESULTS OF THE VERIFICATION STUDY, THEREBY PROVIDING MAPS ADDITIONAL CREDIBILITY WITH BOTH PLANNERS AND ESTIMATORS. IN ADDITION, READERS SHOULD GAIN A BETTER APPRECIATION OF THE PROBLEMS ASSOCIATED WITH PLANNING LEVEL COST ESTIMATIONS AND A BETTER UNDERSTANDING OF THE ACCURACY OF THE RESULTING COST ESTIMATES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010703

PUBLICATION DATE: JUN 81

TITLE: WATER RESOURCES ASSESSMENTS: PRINCIPLES FOR DESIGN AND IMPLEMENTATION.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ASSESSMENT; *DESIGN; *CASE STUDIES; *IMPLEMENTATION; *PLANNING; *WATER ASSESSMENT; *WATER RESOURCES

DESCRIPTIVE NOTE: 139P. PRICE CODE: PC A07/MF A01; PB84-124155

ABSTRACT: THE REPORT, WHICH PROVIDES A REGIONAL PERSPECTIVE ON THE ROLE OF A WATER ASSESSMENT AND EXAMINES THE USE OF SPECIFIC ASSESSMENT METHODS TO REGIONAL WATER-RESOURCES PLANNING, IS ORGANIZED AS A GUIDE TO THOSE CONSIDERING THE DESIGN AND IMPLEMENTATION OF AN ASSESSMENT ON EITHER A NATIONAL OR REGIONAL SCALE. PREVIOUS ASSESSMENTS ARE EVALUATED, THE FRAMEWORK FOR A NEW CONCEPTUAL APPROACH TO ASSESSMENT IS DEFINED, THE DERIVATION OF ASSESSMENT OBJECTIVES ARE DETAILED, AND PRINCIPALS FOR ASSESSMENT DESIGN ARE ESTABLISHED. THE REPORT ALSO REVIEWS ASSESSMENT-LEVEL ANALYTICAL TECHNIQUES AND PRESENTS A CASE STUDY TEST OF THE INDICATOR CONCEPT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010704

PUBLICATION DATE: AUG 83

TITLE: ADAPTATION OF THE SIMPLEX GASIFICATION PROCESS TO THE CO-CONVERSION OF MUNICIPAL SOLID WASTE AND SEWAGE SLUDGE.

PERSONAL AUTHOR: ARBO, J. C.; AND OTHERS

DESCRIPTOR: *BRIQUETTES; COAL; *FUEL; ENERGY CONSERVATION; *GASIFIERS; *RESEARCH; *SLUDGE; *SOLID WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: PRICE CODE: PB82-112418

ABSTRACT: THE FEASIBILITY OF MAKING STURDY BRIQUETTES WITH DEWATERED SLUDGE, MUNICIPAL SOLID WASTE, AND COAL FOR USE IN GASIFIERS WAS DEMONSTRATED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010706

PUBLICATION DATE: AUG 83

TITLE: COMBINED SEWER OVERFLOW CHARACTERISTICS FROM TREATMENT PLANT DATA.

PERSONAL AUTHOR: MUELLER, JAMES A.; DITORO, DOMINIC M.

DESCRIPTOR: *MASS BALANCE TECHNIQUE; *OPERATIONS (WASTEWATER); *RESEARCH; *SEWERS; *SEWER OVERFLOW; *SURFACE RUNOFF; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: PB83-224543

ABSTRACT: RESEARCH WAS UNDERTAKEN TO EVALUATE THE ADEQUACY OF USING A MASS BALANCE TECHNIQUE WITH DAILY MUNICIPAL WASTEWATER TREATMENT PLANT DATA TO DETERMINE COMBINED SEWER RUNOFF AND OVERFLOW CHARACTERISTICS. RESULTS OF THE STUDY ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010707

PUBLICATION DATE: JUN 83

TITLE: DETERMINATION OF MINIMAL INFECTIOUS DOSE OF AN ENTEROVIRUS IN DRINKING WATER.

PERSONAL AUTHOR: SCHIFF, GILBERT M.; AND OTHERS

DESCRIPTOR: *DISEASES; *DRINKING WATER; *PUBLIC HEALTH; *RESEARCH; *VIRUSES; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: PB83-191015

ABSTRACT: THE GOALS OF THIS PROJECT WERE TO DETERMINE THE MINIMAL INFECTIOUS DOSE AND THE MEDICAL SIGNIFICANCE OF AN ENTERIC VIRUS INGESTED IN DRINKING WATER. A TOTAL OF 149 ADULT MALES WERE INVOLVED IN THE STUDY. RESULTS OF THE STUDY ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010708

PUBLICATION DATE: JUN 83

TITLE: EVALUATION OF A PASSIVE MONITOR FOR VOLATILE ORGANICS.

PERSONAL AUTHOR: COUTANT, ROBERT W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AIR; *DOSIMETERS; *MONITORING; *PERFORMANCE EVALUATION; *ORGANIC COMPOUNDS; *POLLUTION; *VOLATILE ORGANICS

DESCRIPTIVE NOTE: PRICE CODE: PB83-194464

ABSTRACT: A LABORATORY INVESTIGATION WAS CONDUCTED TO DETERMINE THE POTENTIAL UTILITY OF A COMMERCIALLY AVAILABLE PASSIVE DOSIMETER FOR MONITORING TOXIC VOLATILE ORGANIC COMPOUNDS AT AMBIENT LEVELS. TEST COMPOUNDS INCLUDED: CHLOROFORM, METHYLCHLOROFORM, CARBON TETRACHLORIDE, TRICHLOROETHYLENE, TETRACHLOROETHYLENE, BENZENE, AND CHLOROBENZENE. IT WAS CONCLUDED THAT AT LEAST ONE CURRENTLY AVAILABLE PASSIVE DOSIMETER COULD BE USEFUL FOR MONITORING OF AMBIENT LEVELS OF TOXIC ORGANIC CHEMICALS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010710

PUBLICATION DATE: AUG 83

TITLE: MEASUREMENT OF VOLATILE CHEMICAL EMISSIONS FROM WASTEWATER BASINS.

PERSONAL AUTHOR: THIBODEAUX, LOUIS J.; AND OTHERS

DESCRIPTOR: *AIR POLLUTION; *ACETONE; *HYDROCARBONS; *INDUSTRIAL WASTES; *METHANOL; *ORGANIC COMPOUNDS; *PULP AND PAPER INDUSTRY; *RESEARCH; *SAMPLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: PB83-135632

ABSTRACT: THE OBJECTIVE OF THIS PROJECT WAS TO DETERMINE THE MAGNITUDE OF THE FLUX RATE OF ORGANIC COMPOUNDS THAT ARE EMITTED INTO THE AIR FROM SELECTED WASTEWATER TREATMENT FACILITIES FOR THE PULP AND PAPER INDUSTRY. A FIELD SAMPLING METHOD WAS DEVELOPED. CONCENTRATIONS OF METHANOL, ACETONE, AND HYDROCARBONS WERE FOUND; CONCENTRATIONS DECREASED WITH HEIGHT ABOVE THE WATER.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010711

PUBLICATION DATE: MAY 83

TITLE: OVERLAND FLOW TREATMENT OF MUNICIPAL SEWAGE AT EASLEY, SC.

PERSONAL AUTHOR: ABERNATHY, A. RAY

DESCRIPTOR: *COSTS; *EFFLUENT; *LAND USE; *OVERLAND FLOW; OPERATIONS (WASTEWATER) *PERFORMANCE EVALUATION; *RESEARCH; *SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: PB83-170985

ABSTRACT: THIS PROJECT SOUGHT TO DEMONSTRATE THE FEASIBILITY OF TREATING EITHER COMMINUTED RAW SEWAGE OR EFFLUENT FROM A FACULTATIVE LAGOON IN PIEDMONT SOUTH CAROLINA WHERE MILD WINTER PREVAILS IN A REGION OF HIGH RAINFALL. THE MAJOR OBJECTIVE WAS TO DEMONSTRATE THE EFFECTIVE TREATMENT OF THE TWO WASTE STREAMS IN A RATHER SIMPLE, EASILY OPERATED OVERLAND FLOW FACILITY. RESULTS OF THE STUDY ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010712

PUBLICATION DATE: AUG 83

TITLE: PREDICTING PREFERENTIAL ADSORPTION OF ORGANICS BY ACTIVATED CARBON.

PERSONAL AUTHOR: BELFORT, GEORGES; AND OTHERS
DESCRIPTOR: *ACTIVATED CARBON; *ADSORPTION; *ORGANIC COMPOUNDS; *RESEARCH

DESCRIPTIVE NOTE: PRICE CODE: PB83-222778

ABSTRACT: PREFERENTIAL ADSORPTION OF ORGANIC COMPOUNDS FROM DILUTE AQUEOUS SOLUTIONS ONTO ACTIVATED CARBON (AC) WAS STUDIED TO DEVELOP A COMPREHENSIVE THEORETICAL BASIS FOR PREDICTING ABSORPTION OF MULTICOMPONENT SOLUTES. RESULTS OF THE PROJECT ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010714

PUBLICATION DATE: JUL 83

TITLE: REDUCED-POLLUTION CORROSION-PROTECTION SYSTEMS.

PERSONAL AUTHOR: STAEBLER, CHRISTIAN J., JR.; SIMPERS, BONNIE F.

DESCRIPTOR: *CORROSION PROTECTION; *CORROSION; CADMIUM; CYANIDE; CHROMIUM; *METAL PLATING; *INDUSTRIAL POLLUTION; ORGANIC SOLVENTS; *PERFORMANCE EVALUATION; *POLLUTION; *RESEARCH; PHENOLIC PAINT STRIPPERS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE CODE: PB83-153056

ABSTRACT: THIS STUDY EVALUATED NEWER LESS POLLUTING METAL PLATING MATERIALS AND PROCESSES AS POTENTIAL ALTERNATIVES TO CURRENTLY USED PLATING SYSTEMS. RESULTS ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010715

PUBLICATION DATE: AUG 83

TITLE: REMOVING ORGANICS FROM PHILADELPHIA DRINKING WATER BY COMBINED OZONATION AND ADSORPTION.

PERSONAL AUTHOR: NEUKRUG, HOWARD M.; AND OTHERS

DESCRIPTOR: *ADSORPTION; *COSTS; *DRINKING WATER; *GRANULAR ACTIVATED CARBON; *OPERATIONS (WATER); *ORGANIC COMPOUNDS; *OXIDATION; *OZONATION; *PERFORMANCE EVALUATION; *UNIT PROCESSES; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: PB83-223370

ABSTRACT: LABORATORY AND PILOT SCALE STUDIES WERE CONDUCTED TO INVESTIGATE THE COMBINED UNIT PROCESSES OF OXIDATION BY OZONATION AND ADSORPTION BY GRANULAR ACTIVATED CARBON (GAC) OF ORGANICS. SYSTEM COMPARISONS WERE MADE USING ESTIMATED TOTAL COSTS OF EACH UNIT PROCESS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010716

PUBLICATION DATE: AUG 83

TITLE: STUDIES OF WATERBORNE AGENTS OF VIRAL GASTROENTERITIS.

PERSONAL AUTHOR: DOLIN, RALPHAEL

DESCRIPTOR: *COLORADO; *DRINKING WATER; *PUBLIC HEALTH; *RESEARCH; *SNOW MOUNTAIN AGENT; *VIRAL GASTROENTERITIS; *VIRUSES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE CODE: PB83-234930

ABSTRACT: THE STUDIES REPORTED WERE CONDUCTED TO INVESTIGATE THE ETIOLOGY OF A LARGE OUTBREAK OF WATERBORNE VIRAL GASTROENTERITIS AND TO DEVELOP SENSITIVE AND EFFICIENT METHODS FOR THE DETECTION OF THE CAUSATIVE AGENT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010718

PUBLICATION DATE: AUG 83

TITLE: TEST PROCEDURE FOR GAMMA EMITTERS IN DRINKING WATER: INTERLABORATORY COLLABORATIVE STUDY.

PERSONAL AUTHOR: CASELLA, V. R., AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *GAMMA EMITTERS; *LABORATORY PROCEDURES; *RADIOACTIVITY; *RADIONUCLIDES; *WATER QUALITY

DESCRIPTIVE NOTE: PRICE CODE: PB83-207381

ABSTRACT: THIS STUDY WAS CONDUCTED FOR THE TEST PROCEDURE, GAMMA EMITTING RADIONUCLIDES IN DRINKING WATER. THE PURPOSE WAS TO DETERMINE THE ESTIMATED PRECISION AND ACCURACY OF MULTILAB TEST RESULTS. RESULTS ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010719

PUBLICATION DATE: JUL 83

TITLE: TEST PROCEDURE FOR IODINE-131 IN DRINKING WATER: INTERLABORATORY COLLABORATIVE STUDY.

PERSONAL AUTHOR: YANKO, W. H.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *IODINE; *IODINE-131; *LABORATORY PROCEDURES; *RESEARCH; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE CODE: PB83-187468

ABSTRACT: AN INTERLABORATORY COLLABORATIVE STUDY WAS CONDUCTED ON A TEST PROCEDURE FOR MEASURING THE IODINE-131 CONCENTRATION IN DRINKING WATER. THE PURPOSE OF THE STUDY WAS TO DETERMINE THE ESTIMATED PRECISION AND ACCURACY OF TEST RESULTS FROM PARTICIPATING LABORATORIES USING THIS TEST PROCEDURE AND ANALYZING DRINKING WATER SAMPLES. RESULTS ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010721

PUBLICATION DATE: 83

TITLE: CURRICULA AND SYLLABI IN HYDROLOGY.

DESCRIPTOR: *CURRICULUM; *EDUCATION; *ENVIRONMENT; *GRADUATE STUDY; *HYDROLOGY; *INSTRUCTION; *PROGRAM DESCRIPTIONS; *TRENDS; *UNDERGRADUATE STUDY; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 111P. PRICE: $12.25; ORDER #4011-U1310

ABSTRACT: THIS UPDATED AND REVISED VERSION OF THE 1972 EDITION CONSIDERS ASPECTS OF WATER QUALITY, ENVIRONMENTAL ISSUES, AND WATER RESOURCES ASSESSMENT FOR THE RATIONAL UTILIZATION OF WATER WITHIN NATIONAL PLANNING SCHEMES. SECTIONS COVER: OBJECTIVES OF HYDROLOGICAL EDUCATION, THE SPECTRUM OF HYDROLOGICAL EDUCATION, TOPICS FOR EDUCATION IN HYDROLOGY, CURRENT STATE OF EDUCATIONAL PROGRAMS, AND FUTURE TRENDS IN HYDROLOGICAL EDUCATION. ANNEXES PRESENT SYLLABI AND CURRICULA FOR UNDERGRADUATE, GRADUATE, AND ADVANCED STUDY IN HYDROLOGY.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10157

IRIS ACCESSION NUMBER: EW010722

PUBLICATION DATE: 83

TITLE: EXPERIMENTAL FACILITIES IN WATER RESOURCES EDUCATION.

DESCRIPTOR: *DESIGN; EDUCATION; *FACILITIES; *HYDROLOGY; INSTRUCTIONAL MATERIALS; *LABORATORIES; *POSTGRADUATE STUDY; *WATER RESOURCES; *UNDERGRADUATE STUDY

DESCRIPTIVE NOTE: 88P. PRICE: $9.25; ORDER #4011-U1311

ABSTRACT: DESIGNED AS A TEACHING AID FOR UNDERGRADUATE AND POSTGRADUATE STUDIES, THIS VOLUME FOCUSES ON THE PLANNING AND DESIGN OF EXPERIMENTAL FACILITIES RELATED TO WATER RESOURCES EDUCATION. SECTIONS COVER: THE HYDROLOGIC CYCLE; HYDRAULICS AND HYDROLOGICAL PROCESSES; DATA GATHERING FOR WATER RESOURCES DESIGN NEEDS AND FOR OPERATION AND MANAGEMENT OF WATER RESOURCES PROJECTS; GENERAL CONCEPTS OF MEASUREMENTS; DESIGNING AND EQUIPPING HYDRAULICS LABORATORIES AND HYDROLOGIC TEACHING FACILITIES; AND THE USE OF EXPERIMENTAL FACILITIES IN WATER RESOURCES EDUCATION.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10157

IRIS ACCESSION NUMBER: EW010723

PUBLICATION DATE: 83

TITLE: GROUND WATER IN THE PACIFIC REGION.

DESCRIPTOR: *DEVELOPMENT; *GROUNDWATER; *INTERNATIONAL PROBLEMS; *MANAGEMENT; *PACIFIC REGION; *WATER RESOURCES; *WATER SUPPLY; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 289P. PRICE: $38.00; ORDER #4011-UN83/2A12

ABSTRACT: REVIEWS THE CURRENT STATUS OF GROUNDWATER RESOURCES IN THE PACIFIC AREA, COVERING AUSTRALIA, JAPAN, THE PHILIPPINES, INDONESIA, NEW ZEALAND, AND NEW GUINEA, AS WELL AS THE SMALLER ISLAND COUNTRIES AND ATOLLS OF THE REGION. CONSIDERS METHODS PRESENTLY USED TO ASSESS AND MANAGE GROUNDWATER RESOURCES AND SUGGESTS STRATEGIES FOR FUTURE DEVELOPMENT. ALSO LISTS GROUNDWATER PROJECTS IN THE PACIFIC REGION SPONSORED BY THE UNITED NATIONS DEVELOPMENT PROGRAMME.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10157

IRIS ACCESSION NUMBER: EW010724

PUBLICATION DATE: 83

TITLE: TEACHING THE SYSTEMS APPROACH TO WATER RESOURCES DEVELOPMENT.

DESCRIPTOR: *DEVELOPMENT; ENGINEERS; HYDROLOGISTS; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *SYSTEMS APPROACH; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 20P. PRICE: $6.00; ORDER #4011-U1307

ABSTRACT: DEFINES AND CHARACTERIZES THE SYSTEMS APPROACH TO WATER RESOURCES DEVELOPMENT. DISCUSSES SYSTEMS ANALYSIS IN CURRICULA FOR HYDROLOGISTS AND ENGINEERS. COVERS TEACHING SUCH AUXILIARY SUBJECTS AS ECONOMICS, ENGINEERING ECONOMY, PROJECT FINANCING, STATISTICS, AND COMPUTER PROGRAMMING. INCLUDES PRACTICAL EXERCISES.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW

YORK, NY 10157

IRIS ACCESSION NUMBER: EW010725

PUBLICATION DATE: 83

TITLE: ACTIVATED SLUDGE: A COMPARISON OF OXYGEN AND AIR SYSTEMS.

DESCRIPTOR: *ACTIVATED SLUDGE; *AIR SYSTEMS; *COMPARATIVE ANALYSIS; *DESIGN; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *OXYGEN; *PERFORMANCE EVALUATION; *POSTSECONDARY EDUCATION; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 112P. PRICE: $15.50

ABSTRACT: THIS REPORT IS DIRECTED TOWARD A REVIEW OF THE OXYGEN-ACTIVATED SLUDGE PROCESS, WHICH WILL INCLUDE DESIGN AND OPERATIONAL DATA FROM FULL-SCALE SYSTEMS AND A GENERAL DISCUSSION OF THE DIFFERENT TYPES OF SYSTEMS COMMERCIALLY AVAILABLE, AS WELL AS A DISCUSSION OF THE CONTROVERSIAL OPERATIONAL CHARACTERISTICS OF SUBSTRATE UTILIZATION RATE, SLUDGE YIELD AND SOLIDS-LIQUID SEPARATION. THE MATERIAL PRESENTED SHOULD ENHANCE THE READER'S UNDERSTANDING OF BOTH THE ACTIVATED SLUDGE PROCESS AND ITS MOST POPULAR MODIFICATIONS.

AVAILABILITY: AMERICAN SOCIETY OF CIVIL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW010726

PUBLICATION DATE: 83

TITLE: BIOLOGICAL CONTROL OF NITROGEN IN WASTEWATER TREATMENT.

PERSONAL AUTHOR: BARNES, D.; BLISS, P. J.

DESCRIPTOR: *BIOLOGICAL CONTROL; *DENITRIFICATION; *INSTRUCTIONAL MATERIALS; *NITROGEN; *NITRIFICATION; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *REFERENCE MATERIALS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $30.00

ABSTRACT: THE TEXT ATTEMPTS TO SUMMARIZE THE THEORY AND PRACTICE OF BIOLOGICAL NITRIFICATION AND DENITRIFICATION PROCESSES IN WASTEWATER TREATMENT, AND HAS BEEN PREPARED TO PRESENT A USABLE REFERENCE OF EXISTING INFORMATION FOR ENGINEERS AND APPLIED SCIENTISTS IN THE FIELD.

AVAILABILITY: E & F. N. SPON, 733 THIRD AVE, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW010727
PUBLICATION DATE: 83

TITLE: CONSTRUCTION INSPECTION--A FIELD GUIDE TO PRACTICE.

PERSONAL AUTHOR: CLYDE, JAMES E.

DESCRIPTOR: *CONSTRUCTION; *DESIGN; *FIELD GUIDES; *INSPECTION; *INSTRUCTIONAL MATERIALS; *POSTSECONDARY EDUCATION

DESCRIPTIVE NOTE: 411P.

ABSTRACT: THIS PUBLICATION IS INTENDED TO PROVIDE THE CONSTRUCTION PRACTITIONER WITH UP-TO-DATE GUIDES TO THEORY, DESIGN, AND PRACTICE.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW010728

TITLE: FUNDAMENTAL INSTRUMENTATION SERIES - MICROPROCESSORS IN INDUSTRIAL CONTROL.

PERSONAL AUTHOR: BIBBERO, ROBERT J.

DESCRIPTOR: *AUTOMATIC CONTROLS; *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *INDUSTRIAL CONTROL; *INSTRUMENTATION; *INSTRUCTIONAL MATERIALS; *MICROPROCESSORS; *POSTSECONDARY EDUCATION

DESCRIPTIVE NOTE: 256P. PRICE: $39.95

ABSTRACT: THE FIRST MODULE IN THE FUNDAMENTAL INSTRUMENTATION SERIES, IS A SELF STUDY TEXT FOR THOSE WHO WANT TO KNOW HOW TO APPLY DIGITAL DEVICES AND MICROPROCESSORS TO PROCESS CONTROL AND OTHER INDUSTRIAL APPLICATIONS. IT PRESUMES NO PREVIOUS EXPERIENCE WITH DIGITAL SYSTEMS AND BEGINS WITH A THOROUGH GROUNDING IN BASIC CONCEPTS, SUCH AS BINARY ARITHMETIC AND LOGIC. WITH THIS BACKGROUND, IT PROCEEDS TO DESCRIBE MICROPROCESSOR PRINCIPLES, SUCH AS ADDRESSING, ARCHITECTURE, MEMORIES, DESCRIPTIONS OF MICROPROCESSOR TYPES, AND INPUT/OUTPUT CHIPS AND TECHNIQUES. THE PROGRAMMING OF MICROPROCESSORS IN ASSEMBLER AND HIGHER LEVEL LANGUAGES IS COVERED IN SOME DETAIL, INCLUDING EXAMPLES SUCH AS ARITHMETIC AND TIMING SOFTWARE.

AVAILABILITY: ILM ADMINISTRATOR, INSTRUMENT SOCIETY OF AMERICA, P. O. BOX 12277 67 ALEXANDER DRIVE, RESEARCH TRIANGLE PARK, NC 27709

IRIS ACCESSION NUMBER: EW010729

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL EFFECTS OF ORGANIC AND INORGANIC CONTAMINANTS IN SEWAGE SLUDGE.

PERSONAL AUTHOR: DAVIS, R. D.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CHEMICALS; *CONFERENCE PROCEEDINGS; *CONTAMINANTS; *EUROPE; *FERTILIZER; *INORGANIC COMPOUNDS; *LAND APPLICATION; *ORGANIC COMPOUNDS; *PUBLIC HEALTH; *SEWAGE SLUDGE; *SLUDGE; *RESEARCH REPORTS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 257P. PRICE: $36.95

ABSTRACT: THIS PUBLICATION CONTAINS THE PROCEEDINGS OF TWO SEMINARS HELD AT THE WATER RESEARCH CENTRE, STEVENAGE, U. K. IN 1982. THE SEMINARS PROVIDED A FORUM FOR THE EXCHANGE OF RECENT RESEARCH RESULTS AND IDEAS ON THE SUBJECT OF TREATED SEWAGE SLUDGE. AGRICULTURAL LAND IS THE PRINCIPAL DISPOSAL ROUTE FOR SEWAGE SLUDGE IN EUROPE. SINCE THERE ARE CONCERNS REGARDING ORGANIC AND INORGANIC CONTAMINANTS THAT MAY OCCUR IN SLUDGE, RESEARCH IS BEING CONDUCTED ON THE EFFECTS OF THESE CONTAMINANTS AND TO PROTECT FOOD SUPPLIES WHERE SEWAGE SLUDGE IS USED ON LAND.

AVAILABILITY: D REDIEL PUBLISHING COMPANY, 190 OLD DERBY ST., HINGHAM, MA 02043

IRIS ACCESSION NUMBER: EW010730

PUBLICATION DATE: 83

TITLE: EVALUATING THE FLUIDIZED BED COMBUSTION OPTION.

PERSONAL AUTHOR: SHEAHAN, RICHARD T.
DESCRIPTOR: *BOILERS; *FLUIDIZED BED COMBUSTION; *COMBUSTION; *CONFERENCE PROCEEDINGS; *ECONOMICS; *EQUIPMENT; *TECHNOLOGY

DESCRIPTIVE NOTE: 288P. PRICE: $68.00

ABSTRACT: THIS BOOK DOCUMENTS A CONFERENCE HELD IN WASHINGTON, D. C., ON FLUIDIZED BED COMBUSTION (FBC) AS A COST-EFFECTIVE OPTION FOR BOILER UPGRADE. THE CONFERENCE WAS SPONSORED BY THE HIGHER EDUCATION ENERGY TASK FORCE AND THE COUNCIL OF INDUSTRIAL BOILER OWNERS (CIBO). THE BOOK DISCUSSES THE ECONOMICS AND TECHNICAL FUNDAMENTALS OF ATMOSPHERIC FBC FOR THE BENEFIT OF OWNERS AND MANUFACTURERS OF INDUSTRIAL AND INSTITUTIONAL BOILERS.

AVAILABILITY: GOVERNMENT INSTITUTES, BOX 1096, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW010731

PUBLICATION DATE: 83

TITLE: FIXED-FILM BIOLOGICAL PROCESSES FOR WASTEWATER TREATMENT.

PERSONAL AUTHOR: WU, YEUN C.; SMITH, ED O.

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CONFERENCE PROCEEDINGS; *FIXED-FILM BIOLOGICAL PROCESSES; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 493P. PRICE: $48.00

ABSTRACT: THIS PUBLICATION PROVIDES UP-TO-DATE AND PERTINENT SCIENTIFIC INFORMATION CONCERNING FIXED-FILM BIOLOGICAL PROCESSES FOR THE TREATMENT OF WASTEWATER. IT IS AN OUTGROWTH OF TWO CONFERENCES: "THE FIRST NATIONAL SYMPOSIUM WORKSHOP ON ROTATING BIOLOGICAL CONTACTOR TECHNOLOGY," SPONSORED BY THE U. S. ARMY CONSTRUCTION ENGINEERING RESEARCH LABORATORY, THE U. S. ENVIRONMENTAL PROTECTION AGENCY, AND THE UNIVERSITY OF PITTSBURGH; AND "THE FIRST INTERNATIONAL CONFERENCE ON FIXED-FILM BIOLOGICAL PROCESSES," WHICH THE NATIONAL SCIENCE FOUNDATION COSPONSORED.

AVAILABILITY: NOYES DATA CORPORATION, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW010732

PUBLICATION DATE: 83

TITLE: GROUNDWATER CONTAMINATION IN THE UNITED STATES.

PERSONAL AUTHOR: PYE, VERONICA I.; AND OTHERS

DESCRIPTOR: *CASE STUDIES; *CONTAMINATION; *GROUNDWATER; *LAWS; *LEGISLATION; *MONITORING; *POLLUTION; *REGULATIONS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER QUALITY
DESCRIPTIVE NOTE: 307P.

ABSTRACT: THIS REPORT ON GROUNDWATER CONTAMINATION PROVIDES A NATIONAL PERSPECTIVE ON GROUNDWATER RESOURCES, THE EXTENT AND SEVERITY OF THEIR CONTAMINATION, AND RELATED WATER QUALITY POLICIES. THE BOOK IS BASED ON A STUDY INITIATED IN 1981 AND SUPPORTED BY THE ENVIRONMENTAL ASSESSMENT COUNCIL OF THE PHILADELPHIA ACADEMY OF NATURAL SCIENCES. ITS PURPOSE WAS TO DESCRIBE FACTORS THAT ALTER GROUNDWATER QUALITY, DISCUSS THE EFFECTS OF GROUNDWATER CONTAMINATION, IDENTIFY MITIGATING MEASURES, AND REVIEW PERTINENT FEDERAL AND STATE LAWS.

AVAILABILITY: UNIVERSITY OF PENNSYLVANIA PRESS, ACADEMY OF NATURAL SCIENCE, NINETEENTH AND THE PARKWAY, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW010733

PUBLICATION DATE: 83

TITLE: THE INCIDENCE MONITORING AND TREATMENT OF VIRUSES IN WATER SUPPLY SYSTEMS--A STATE OF THE ART REVIEW.

DESCRIPTOR: *DISEASES; *DISINFECTION; *DRINKING WATER; *HEALTH; *MONITORING; *OPERATIONS (WATER); *PUBLIC HEALTH; *VIRUSES; *WATER SUPPLY; *WATER TREATMENT; *WASTEWATER TREATMENT; *WATER REUSE

DESCRIPTIVE NOTE: 85P. PRICE: $13.00

ABSTRACT: THE AIM OF THIS REVIEW WAS TO PLACE THE VARIOUS CONTROVERSIES CONCERNING VIRAL CONTAMINATION/INFECTION INTO PROPER PERSPECTIVE, AND TO PROVIDE THE PROFESSIONAL WITH SUFFICIENT INFORMATION TO MAKE AN INTELLIGENT DECISION TOWARD RESOLVING THE ISSUES IN QUESTION.

AVAILABILITY: AMERICAN SOCIETY OF CIVIL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017

IRIS ACCESSION NUMBER: EW010734

PUBLICATION DATE: MAR 83

TITLE: OSHA SAFETY & HEALTH STANDARDS, 1983.

DESCRIPTOR: *ACCIDENT PREVENTION; *ACCIDENTS; *HAZARDOUS MATERIALS; *HEALTH; *PUBLIC HEALTH; *REFERENCE MATERIALS; *SAFETY; *STANDARDS

DESCRIPTIVE NOTE: 838P. PRICE: $12.00

ABSTRACT: THIS PUBLICATION CONTAINS THE TEXT OF THE CODE OF FEDERAL REGULATIONS, TITLE 29 (LABOR), PART 1910: GENERAL INDUSTRY STANDARDS. THIS CFR PART IS DIVIDED INTO THE FOLLOWING SECTIONS: (1) GENERAL SAFETY AND HEALTH PROVISIONS; (2) WALKING-WORKING SURFACES; (3) MEANS OF EGRESS; (4) POWERED PLATFORMS, MAN LIFTS, AND VEHICLE-MOUNTED WORK PLATFORMS; (5) OCCUPATIONAL HEALTH & ENVIRONMENTAL CONTROL; (6) HAZARDOUS MATERIALS; (7) PERSONAL PROTECTIVE EQUIPMENT; (8) GENERAL ENVIRONMENTAL CONTROLS; (9) MEDICAL AND FIRST AID; (10) FIRE PROTECTION; (11) COMPRESSED GAS AND COMPRESSED AIR EQUIPMENT; (12) MATERIALS HANDLING AND STORAGE; (13) MACHINERY AND MACHINE GUARDING; (14) HAND & PORTABLE POWERED TOOLS AND OTHER HAND-HELD EQUIPMENT; (15) WELDING, CUTTING AND BRAZING; (16) SPECIAL INDUSTRIES; (17) ELECTRICAL; AND (18) COMMERCIAL DIVING OPERATIONS. THIS TEXT IS REVISED THROUGH MARCH 11, 1983, AND AN EXTENSIVE SUBJECT INDEX IS INCLUDED.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402.

IRIS ACCESSION NUMBER: EW010735

PUBLICATION DATE: 83

TITLE: HOW TO BE AN EFFECTIVE TRAINER.

PERSONAL AUTHOR: SMITH, BARRY J.; DELAHAYE, BRIAN L.

DESCRIPTOR: *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *INSTRUCTION; *POSTSECONDARY EDUCATION; *TRAINING

DESCRIPTIVE NOTE: 300P. PRICE: $55.95

ABSTRACT: THIS BOOK IS DESIGNED TO HELP PEOPLE BECOME AN EFFECTIVE TRAINER. IT IS A SELF-INSTRUCTIONAL PACKAGE AND INCLUDES SECTIONS ON VARIOUS ASPECTS OF TRAINING.

AVAILABILITY: JOHN WILEY & SONS, INC. ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW010736

PUBLICATION DATE: 82

TITLE: SUPERVISORY MANAGEMENT - A SHORT COURSE IN SUPERVISION, 2ND EDITION.

PERSONAL AUTHOR: ECKLES, ROBERT W.; AND OTHERS

DESCRIPTOR: *COMMUNICATION; *EVALUATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MOTIVATION; *OBJECTIVES; *POSTSECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 304P. PRICE: $55.95

ABSTRACT: THIS NEW EDITION OF A JOB-TESTED GUIDE IS A GOOD REFERENCE FOR SUPERVISORS AND MANAGERS. NEW TO THIS EDITION ARE IMPROVED COVERAGE OF: TIME MANAGEMENT AND RESOURCE ORGANIZATION; MOTIVATION AND COMMUNICATION; AND ADDITIONAL CHAPTERS ON PRODUCTIVITY, QUALITY CIRCLES, AND WORKER INVOLVEMENT.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW010737

PUBLICATION DATE: MAR 84

TITLE: ANALYSIS AND CONTROL OF UNSTEADY FLOW IN PIPE SYSTEMS, 2ND EDITION.

PERSONAL AUTHOR: WATTERS, GARY Z.

DESCRIPTOR: *COMPUTER SOFTWARE; *CONTROL DEVICES; *FLUID FLOW; *FLOW MEASUREMENT; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *PIPES; *POSTSECONDARY EDUCATION; *PUMPS; *UNSTEADY FLOW

DESCRIPTIVE NOTE: 336P. PRICE: $39.95

ABSTRACT: THIS SECOND EDITION OF THIS TEXT HAS BEEN REORGANIZED AND EXPANDED FROM THE ORIGINAL, AND WILL THUS BE OF EVEN GREATER VALUE TO THE ENGINEER FACED WITH THE PROBLEM OF UNSTEADY FLOW IN PIPELINES. IT CONTINUES THE PURPOSE OF THE FIRST EDITION, IN THAT IT CONTAINS MANY TIME-SAVING FORTRAN PROGRAMS USEFUL FOR ANALYZING PRESSURE EXTREMES AND CONTROL DEVICES. THESE PROGRAMS HAVE BEEN IMPROVED TO BE MORE USEFUL, UNDERSTANDABLE, AND VERSATILE. A PARTICULARLY USEFUL CHAPTER NEW TO THIS EDITION INCLUDES A REVIEW OF STEADY STATE HYDRAULICS THAT WILL PROVE A USEFUL REFERENCE TO THOSE WHOSE SKILLS AND KNOWLEDGE IN BASIC HYDRAULICS MAY HAVE DIMMED, AND WHO MAY NOT HAVE ACCESS TO BASIC FLUID MECHANICS TEXTS.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE, STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010738

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL LAW FOR NON-LAWYERS.

PERSONAL AUTHOR: FIRESTONE, DAVID B., REED, FRANK C.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL LAW; *INSTRUCTIONAL MATERIALS; *LAWS; *POLLUTION; *POSTSECONDARY EDUCATION; *PESTICIDES; *SOLID WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 282P. PRICE: $29.95

ABSTRACT: THIS BOOK PROVIDES AN UNDERSTANDING OF MANY DIFFERENT TOPICS THAT MAY BE GROUPED AS ENVIRONMENTAL LAW. WRITTEN FOR INDIVIDUALS WITH NO LEGAL TRAINING, THE WORK IS OBJECTIVE RATHER THAN PERSUASIVE. IT OFFERS A CLEAR AND FAIR PRESENTATION OF BOTH SIDES OF THE ISSUE, YET FAVORS NEITHER SIDE.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010739

PUBLICATION DATE: 83

TITLE: FLUID MECHANICS AND UNIT OPERATIONS.

PERSONAL AUTHOR: AZBEL, DAVID S.; CHEREMISINOFF, NICHOLAS P.

DESCRIPTOR: *ENGINEERING; *FLUID FLOW; *FLUID MECHANICS; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *POSTSECONDARY EDUCATION; *SCALE-UP; *UNIT OPERATION

DESCRIPTIVE NOTE: 1173P. PRICE: $79.95

ABSTRACT: THIS VOLUME THOROUGHLY COVERS THOSE UNIT OPERATIONS WHICH DEMAND AN UNDERSTANDING OF FLUID MECHANICS. THIS BOOK DIFFERS FROM OTHER TEXTS BECAUSE IT APPLIES THEORY DIRECTLY TO THE DESIGN OF UNIT OPERATIONS. THE AUTHORS PRESENT DETAILED EQUIPMENT SCALEUP METHODOLOGY ALONG WITH NUMEROUS PRACTICE AND EXAMPLE PROBLEMS. THOSE PRINCIPLES IMPORTANT TO MECHANICAL DESIGN ASPECTS FOR THE INTENDED OPERATION ARE ALSO PRESENTED. BECAUSE THE PROBLEMS ARE BASED ON ACTUAL INDUSTRIAL SITUATIONS, THE BOOK WILL PROVE A VALUABLE DESIGN GUIDE FOR PRACTICING ENGINEERS.

AVAILABILITY: BUTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010740

PUBLICATION DATE: 83

TITLE: MATHEMATICAL ANALYSIS OF GROUNDWATER RESOURCES.

PERSONAL AUTHOR: HUNT, BRUCE

DESCRIPTOR: *EQUATIONS; *FLOWS; *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *PHYSICS; *POSTSECONDARY EDUCATION; *POLLUTION; *WATER RESOURCES

DESCRIPTIVE NOTE: 288P. PRICE: $39.95

ABSTRACT: THIS BOOK INTRODUCES THE PHYSICS AND MATHEMATICAL ANALYSIS OF GROUNDWATER RESOURCE PROBLEMS. GOVERNING EQUATIONS AND BOUNDARY CONDITIONS ARE DERIVED, AND VARIOUS COMBINATIONS OF THESE EQUATIONS NECESSARY FOR WELL-POSED PROBLEMS ARE ILLUSTRATED BY EXAMPLES. AN EARLY CHAPTER ON THE APPROXIMATE SOLUTION OF BOUNDARY VALUE PROBLEMS EMPHASIZES THE USE OF COMPUTERS AND FINITE DIFFERENCES TO OBTAIN NUMERICAL SOLUTIONS. LATER CHAPTERS USE COMPLEX VARIABLE AND LAPLACE TRANSFORM TECHNIQUES TO OBTAIN EXACT SOLUTIONS FOR STEADY AND UNSTEADY FLOWS. ALSO INCLUDED IS THE INVERSE PROBLEM OF CALCULATING AQUIFER COEFFICIENTS FROM FIELD MEASUREMENTS OF PIEZOMETRIC HEADS, AND SOME OF THE COMPUTATIONAL ASPECTS OF GROUNDWATER POLLUTION. PROBLEMS AT THE END OF EACH CHAPTER ILLUSTRATE AND EXTEND THE TEXT, AND SPECIALIZED APPENDICES OFFER A SELECTION OF WORKED EXAMPLES. TRIGONOMETRIC AND HYPERBOLIC FUNCTIONS WITH COMPLEX ARGUMENTS AND THE NUMERICAL CALCULATION OF SINGULAR INTEGRALS ARE ALL THOROUGHLY DISCUSSED AND EXPLAINED.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010741

PUBLICATION DATE: 83

TITLE: SCALE-UP OF WATER AND WASTEWATER TREATMENT PROCESSES.

PERSONAL AUTHOR: SCHMIDTKE, NORBERT W., SMITH, DANIEL W.

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CHEMICAL PROCESSES; *DESIGN; *EVALUATION; *ENGINEERING; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *PROCESS DEVELOPMENT; *SCALE-UP; *SCALE-DOWN; *UNIT OPERATIONS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 512P. PRICE: $39.95

ABSTRACT: AN IMPORTANT CONSIDERATION IN WASTEWATER TREATMENT PROCESS DEVELOPMENT, DESIGN AND EVALUATION IS THE IMPACT OF CHANGING SIZE OR SCALE OF UNIT OPERATIONS. THIS NEW BOOK PRESENTS A COMPREHENSIVE, DETAILED EXAMINATION OF THESE SCALE CHANGES AS APPLIED TO WATER AND WASTEWATER TREATMENT. NEARLY 40 LEADING ENVIRONMENTAL ENGINEERS FROM 10 COUNTRIES OFFER THE BENEFIT OF THEIR MOST RECENT EXPERIENCE. BOTH SCALE-UP AND SCALE-DOWN ARE CONSIDERED, THE FORMER TO ENSURE THE SUCCESSFUL TRANSITION FROM SMALL SCALE RESULTS TO PILOT SCALE AND EVENTUALLY FULL SCALE SYSTEMS. SCALE-DOWN IS IMPORTANT IN THE ANALYSIS OF OPERATION AND PERFORMANCE OF FULL SCALE UNITS. PROBLEMS ENCOUNTERED IN THE FIELD CAN BE MORE EASILY STUDIED AND SOLVED IN A BENCH-SCALE MODEL; THE SOLUTIONS CAN THEN SUCCESSFULLY BE SCALED-UP TO FIELD OPERATION.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010742

PUBLICATION DATE: 83

TITLE: SEPTIC-TANK SYSTEMS: A CONSULTANT'S TOOLKIT - VOLUME 1--SUBSURFACE DISPOSAL OF SEPTIC-TANK EFFLUENTS.

PERSONAL AUTHOR: TIMOTHY, JOHN H.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *DESIGN; *EFFLUENTS; *ONSITE TREATMENT; *OPERATIONS (WASTEWATER); *PERCOLATION; *SEPTIC TANKS; *SOILS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 240P. PRICE: $29.95

ABSTRACT: THIS IS VOLUME ONE OF A TWO-VOLUME SERIES. THIS PUBLICATION FOCUSES ON VARIOUS ASPECTS OF SUBSURFACE DISPOSAL SEPTIC TANKS, EFFLUENTS INCLUDING PERCOLATION TESTS, SITING, DISPOSAL FIELDS, SURVEYS, AND FIELD APPLICATIONS.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010743

PUBLICATION DATE: 83
TITLE: SEPTIC-TANK SYSTEMS: A CONSULTANT'S TOOLKIT - VOLUME 2--THE SEPTIC TANK.

PERSONAL AUTHOR: TIMOTHY, JOHN H.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *ONSITE TREATMENT; *OPERATIONS (WASTEWATER); *SEPTIC TANKS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 144P. PRICE: $19.95

ABSTRACT: THIS IS VOLUME TWO OF THE TWO-VOLUME SERIES. THIS PUBLICATION FOCUSES ON VARIOUS ASPECTS OF SEPTIC TANKS INCLUDING GASES, NITROGEN REMOVAL, OXYGEN, SUSPENDED SOLIDS, WATER USE, AND SLUDGE.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW010744

TITLE: FUNDAMENTALS OF FLOW MEASUREMENT.

PERSONAL AUTHOR: DECARLO, JOSEPH P.

DESCRIPTOR: *FLUIDS; *FLOW MEASUREMENT; *FLOW METERS; *INSTRUCTIONAL MATERIALS; *PROCESS CONTROLS; *POSTSECONDARY EDUCATION

DESCRIPTIVE NOTE: 256P. PRICE: $39.95
ABSTRACT: FUNDAMENTALS OF FLOW MEASUREMENT IS DESIGNED TO CONVEY TO THE STUDENT A COMPREHENSIVE UNDERSTANDING OF FLOW MEASUREMENT METHODS THROUGH DOCUMENTATION THAT IS LOGICALLY CATEGORIZED AND READILY UTILIZED IN PRACTICAL SITUATIONS. TWELVE SEPARATE UNITS ARE DESIGNED TO INTRODUCE THE TWO BASIC APPROACHES TO FLOW MEASUREMENT, "ENERGY EXTRACTIVE" AND "ENERGY ADDITIVE," THE GENERAL CLASSES AND TYPES OF FLOWMETERS, THE TERMINOLOGY ASSOCIATED WITH FLOW MEASUREMENT, SPECIAL TECHNIQUES, MASS FLOW MEASUREMENT, AND THE METHODOLOGY FOR FLOWMETER SELECTION. EACH UNIT IS DESIGNED IN A CONSISTENT FORMAT WITH A SET OF SPECIFIC LEARNING OBJECTIVES.

AVAILABILITY: ILM ADMINISTRATOR, INSTRUMENT SOCIETY OF AMERICA, P. O. BOX 12277, 67 ALEXANDER DR., RESEARCH TRIANGLE PARK, NC 27709

IRIS ACCESSION NUMBER: EW010745

TITLE: CONTROL PRINCIPLES AND TECHNIQUES SERIES - FUNDAMENTALS OF PROCESS CONTROL THEORY.

PERSONAL AUTHOR: MURRILL, PAUL W.

DESCRIPTOR: *AUTOMATIC CONTROLS; *AUTOMATION; *CONTROL THEORY; *CONTROL TECHNIQUES; *INSTRUCTIONAL MATERIALS; *PROCESS CONTROLS; *POSTSECONDARY EDUCATION

DESCRIPTIVE NOTE: 248P. PRICE: $39.95
ABSTRACT: THE FIRST MODULE IN THIS SERIES, FUNDAMENTALS OF PROCESS CONTROL THEORY, TEACHES BASIC PRINCIPLES OF PROCESS AUTOMATION. UNITS 1-6 PRESENT BASIC FEEDBACK CONTROL CONCEPTS AND THE FUNCTIONAL COMPONENTS USED IN MODERN INDUSTRY APPLICATIONS. UNITS 7 AND 8 INTRODUCE DYNAMIC BEHAVIOR AND TUNING OF PROCESS CONTROL SYSTEMS. UNITS 9-12 REVIEW ADVANCED CONTROL TECHNIQUES AND CONCEPTS.

AVAILABILITY: ILM ADMINISTRATOR, INSTRUMENT SOCIETY OF AMERICA, P. O. BOX 12277, 67 ALEXANDER DR., RESEARCH TRIANGLE PARK, NC 27709

IRIS ACCESSION NUMBER: EW010746

TITLE: MEASUREMENT AND CONTROL OF LIQUID LEVEL.

PERSONAL AUTHOR: CHO, CHUN H.

DESCRIPTOR: *CONTROL SYSTEMS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LIQUIDS; *MEASUREMENT; *POSTSECONDARY EDUCATION; *PROCESS CONTROLS; *SENSING DEVICES

DESCRIPTIVE NOTE: 288P. PRICE: $39.95

ABSTRACT: MEASUREMENT AND CONTROL OF LIQUID LEVEL IS DESIGNED TO TEACH THE BASIC PRINCIPLES OF LIQUID LEVEL MEASUREMENT AND TO DEMONSTRATE THE SELECTION AND APPLICATION

OF THESE LEVEL MEASUREMENT DEVICES FOR A WIDE RANGE OF PROCESS CONTROL AND MEASUREMENT REQUIREMENTS. THE ILM IS DIVIDED INTO TWELVE SEPARATE UNITS. THE FIRST TWO UNITS ARE DEDICATED TO SETTING THE TONE AND INCLUDE SOME OF THE BASIC OBJECTIVES OF THE SELF-STUDY COURSE. FOLLOWING THESE, THERE ARE FIVE UNITS (UNITS 3-7) WHICH INTRODUCE THE DIFFERENT BASIC TYPES OF LEVEL SENSING DEVICES AND THEIR PRINCIPLES OF OPERATION. UNITS 8-10 PRESENT AN OVERVIEW OF THE OTHER CONTROL LOOP ELEMENTS WHICH ARE AN INTEGRAL PART OF A LEVEL CONTROL SYSTEM: CONTROL VALVES, CONTROLLERS, AND MOST IMPORTANTLY, THE LEVEL PROCESS TO BE CONTROLLED. THE LAST TWO UNITS (UNITS 11 AND 12) GIVE SOME EXAMPLES OF THE TYPICAL LEVEL CONTROL SYSTEM AND A TOOL TO APPLY IN THE ANALYSIS OF LEVEL CONTROL SYSTEMS WITH RESPECT TO ITS SYSTEM STABILITY AND PERFORMANCE CRITERIA.

AVAILABILITY: ILM ADMINISTRATOR, INSTRUMENT SOCIETY OF AMERICA, P. O. BOX 12277, 67 ALEXANDER DRIVE, RESEARCH TRIANGLE PARK, NC 27709

IRIS ACCESSION NUMBER: EW010747

PUBLICATION DATE: 82

TITLE: BACTERIAL INDICATORS OF POLLUTION.

PERSONAL AUTHOR: PIPES, WESLEY O.

DESCRIPTOR: *BACTERIA; *BIOLOGICAL INDICATORS; *HEALTH; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MICROBIOLOGY; *MONITORING; *POLLUTION; *POSTSECONDARY EDUCATION; *PUBLIC HEALTH; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 184P. PRICE: $68.00

ABSTRACT: BACTERIAL INDICATORS, THEIR USE IN ASSESSING WATER QUALITY AND HEALTH RISKS, AND THE CURRENT CONTROVERSIES ON THEIR USE ARE PRESENTED. MICROBIAL TECHNIQUES AND STATISTICAL PROBLEMS ARE EXAMINED; RECOMMENDATIONS FOR CHOOSING TECHNIQUES ARE GIVEN. QUANTITATIVE RELATIONSHIPS BETWEEN INDICATOR DENSITY AND PATHOGEN DENSITY ARE EXPLORED. THE BASIS FOR REGULATING MICROBIAL WATER QUALITY AND THE COST OF MONITORING ARE ALSO DISCUSSED.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010749

PUBLICATION DATE: 82

TITLE: BIODEGRADATION AND DETOXIFICATION OF ENVIRONMENTAL POLLUTANTS.

PERSONAL AUTHOR: CHAKRABARTY, A. M.

DESCRIPTOR: *BIODEGRADATION; *BIOLOGY; *DETOXIFICATION; *ENVIRONMENT; *ENZYMES; *PCBS; *POLLUTION; *POLLUTION CONTROL; *PESTICIDES

DESCRIPTIVE NOTE: 160P. PRICE: $50.00

ABSTRACT: DEFINES AND REVIEWS THE RECENT ADVANCES IN THE UNDERSTANDING OF THE BIOLOGICAL MECHANISMS INVOLVED IN THE BIODEGRADATION AND DETOXIFICATION OF VARIOUS ENVIRONMENTAL POLLUTANTS: THE POTENTIAL OF MICROBIAL ENZYME SYSTEMS FOR THE DETOXIFICATION AND DISPOSAL OF INDUSTRIAL PESTICIDES IS INVESTIGATED. FACTORS AFFECTING MICROBIAL DEGRADATION OF PCBS ARE DISCUSSED. ENZYMES INVOLVED IN HYDROXYLATION AND DETOXIFICATION ARE EXAMINED AS WELL AS THE GENETICS AND EVOLUTION OF THESE PROCESSES. AN OVERALL PICTURE OF THE MERCURY CYCLE IS PRESENTED, INCLUDING MERCURIC AND ORGANOMERCURIAL RESISTANCE. THE EXTENSIVE EVOLUTIONARY DIVERGENCE OF HOMOLOGOUS STRUCTURAL GENES IS DESCRIBED. CHLORINATED COMPOUNDS ARE REVIEWED WITH AN EMPHASIS ON THE ROLE OF PLASMIDS IN MICROBIAL DISSIMILATION, AND THE GENETIC MECHANISMS GOVERNING DISSIMILATION OF CHLORINATED COMPOUNDS BY MEMBERS OF ENTEROBACTERIACEAE.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010750

PUBLICATION DATE: 82

TITLE: CRC HANDBOOK OF IRRIGATION TECHNOLOGY - VOLUME I.

PERSONAL AUTHOR: FINKEL, HERMAN J.

DESCRIPTOR: *AGRICULTURE; *DESIGN; *IRRIGATION; *SALINITY; *SOILS; *WATER RESOURCES; *WATER USE; *WATER QUALITY

DESCRIPTIVE NOTE: 369P. PRICE: $66.00

ABSTRACT: THESE VOLUMES SUMMARIZE ESSENTIAL DATA ON THE DESIGN AND OPERATION OF VARIOUS IRRIGATION SYSTEMS FOR CROPS EXISTING IN DIFFERENT SOILS AND CLIMATIC REGIONS OF THE WORLD. THEY PROVIDE PRACTICAL SOLUTIONS TO PROBLEMS. MUCH OF THE INFORMATION IS IN TABULAR FORM. VOLUME I BEGINS WITH A DISCUSSION OF THE IMPORTANCE AND EXTENT OF IRRIGATION IN THE WORLD. SPECIFIC ASPECTS SUCH AS SOIL-WATER AND PLANT-WATER RELATIONSHIPS, SOIL SALINITY AND WATER QUALITY AND WATER REQUIREMENTS OF CROPS ARE THOROUGHLY EXAMINED. VARIOUS IRRIGATION METHODS ARE EXPLAINED.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010751

PUBLICATION DATE: 82

TITLE: CRC HANDBOOK OF IRRIGATION TECHNOLOGY - VOLUME II.

PERSONAL AUTHOR: FINKEL, HERMAN J.

DESCRIPTOR: *AGRICULTURE; *IRRIGATION; *IRRIGATION METHODS;

*HEALTH HAZARDS; *LAND USE; *ECONOMICS; *WATER RESOURCES; *WATER USE

DESCRIPTIVE NOTE: 202P. PRICE: $48.00

ABSTRACT: THIS IS VOLUME II OF A TWO VOLUME SERIES. THE VOLUME PROVIDES INFORMATION ON LAND GRADING, CRITERIA FOR CHOOSING AN IRRIGATION METHOD, HEALTH HAZARDS AND ECONOMICS. METHODS FOR IRRIGATING SPECIFIC CROPS SUCH AS COTTON, SUGAR, CEREAL, CITRUS, ETC., ARE EMPHASIZED.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010752

PUBLICATION DATE: 83

TITLE: EVALUATION METHODS FOR ENVIRONMENTAL STANDARDS.

PERSONAL AUTHOR: ROWE, WILLIAM D.

DESCRIPTOR: *CADMIUM; *COST BENEFIT ANALYSIS; *ENVIRONMENTAL IMPACT; *EVALUATION; *POLLUTANTS; *PHENOL; *PUBLIC HEALTH; *RISK ANALYSIS; *STANDARDS; *WATER POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 330P. PRICE: $69.00

ABSTRACT: THE GENESIS OF THIS BOOK WAS A STUDY CONDUCTED BY THE AMERICAN UNIVERSITY INSTITUTE FOR RISK ANALYSIS (AURA) FOR THE AMERICAN IRON AND STEEL INSTITUTE (AISI). THIS WORK EVALUATES 15 DIFFERENT APPROACHES OF SETTING ACCEPTABLE LEVELS OF RISK IN ENVIRONMENTAL STANDARDS FROM "ZERO" RISK, TO THE BROADEST, COST/BENEFIT ANALYSIS. THIS IS ACCOMPLISHED BY USING TWO SUBSTANCES. CADMIUM AND PHENOL-THE FIRST INORGANIC, THE SECOND ORGANIC-AS VEHICLES TO TRACE THE DEVELOPMENT OF RISK ESTIMATES IN WATER POLLUTION, METHODS OF CONTROL, APPROACHES TO STANDARD SETTING, AND METHODS OF SETTING ACCEPTABLE LEVELS OF RISK FOR THESE STANDARDS. MATERIAL IS PRESENTED IN A LOGICAL SEQUENCE OF STUDY TASKS THAT FOLLOW A TYPICAL PROCESS THAT MIGHT BE INVOLVED IN DEVELOPING A STANDARD. THESE TASKS ARE: BACKGROUND AND MODEL DEVELOPMENT; HEALTH AND ENVIRONMENTAL ASSESSMENT; RISK ESTIMATES; ESTABLISHING BASELINES FOR REMAINING PARAMETERS; AND ANALYSIS OF THE EFFECTIVENESS OF ALTERNATIVE METHODS. DETAILED EXPLANATIONS OF TECHNIQUES AND DEVELOPMENTS ARE PRESENTED AND THE APPENDIXES EXPAND UPON THE INFORMATION PRESENTED IN THE CHAPTERS.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010753

PUBLICATION DATE: 77

TITLE: GUIDEBOOK: TOXIC SUBSTANCES CONTROL ACT.-VOLUME I.

PERSONAL AUTHOR: DOMINGUEZ, GEORGE S.

DESCRIPTOR: *CHEMICALS; *EPA; *GUIDEBOOKS; *LEGISLATION; *INDUSTRY; *PUBLIC HEALTH; *POLLUTION CONTROL; *TOXIC SUBSTANCES; *TOXIC SUBSTANCES CONTROL ACT

DESCRIPTIVE NOTE: 448P. PRICE: $66.00

ABSTRACT: INCLUDES THE COMPLETE TOXIC SUBSTANCES CONTROL ACT ALONG WITH A SUMMARY AND ANALYSIS, THE SENATE AND HOUSE COMMITTEE REPORT, AND EPA'S IMPLEMENTATION PLAN. SECTIONS ON CORPORATE PREPAREDNESS OUTLINE STEPS EACH COMPANY SHOULD TAKE TO COPE WITH THE LAW. FOUR PROGRESSIVE LEVELS OF INVESTIGATIONAL EFFORTS, DEPENDING UPON EXTENT, FREQUENCY, AND NATURE OF CHEMICAL USE ARE IDENTIFIED IN A SECTION ON TOXICOLOGICAL EFFECTS TESTING. THE MOST CURRENT LIST OF U. S. ENVIRONMENTAL AND TOXICOLOGICAL TESTING LABORATORIES AVAILABLE IS ALSO INCLUDED.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010754

PUBLICATION DATE: 83

TITLE: GUIDEBOOK: TOXIC SUBSTANCES CONTROL ACT - VOLUME II.

PERSONAL AUTHOR: DOMINGUEZ, GEORGE S.

DESCRIPTOR: *CHEMICALS; *ECONOMICS; *EPA; *GUIDEBOOKS; *INDUSTRIAL WASTES; *LEGISLATION; *POLICIES; *PUBLIC HEALTH; *POLLUTION CONTROL; *TOXIC SUBSTANCES; *TOXIC SUBSTANCES CONTROL ACT

DESCRIPTIVE NOTE: 240P. PRICE: $86.00

ABSTRACT: BEGINS WITH A DISCUSSION OF THE JUDICIAL CONSTRUCTION OF THE LAW FROM THE STANDPOINT OF RECENT LITIGATION INVOLVING TESTING, PCBS, HEALTH AND SAFETY STUDIES, CONFIDENTIALITY AND INSPECTIONS. THE TSCA'S IMPACT ON THE ECONOMY AND ON INTERNATIONAL ACTIVITY IS HIGHLIGHTED. OTHER DISCUSSIONS IN THIS VOLUME EXPLAIN THE ROLE OF THE INTERAGENCY TESTING COMMITTEE, INDUSTRIAL RISK REQUIREMENTS FOR SUBSTANTIAL RISK REPORTING, AND ENVIRONMENTAL EFFECTS TESTING. THE EPA'S POWER TO PREVENT OR DELAY THE MANUFACTURE AND USE OF NEW AND CERTAIN EXISTING CHEMICALS WHILE IT STUDIES ENVIRONMENTAL EFFECTS IS ALSO COVERED.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010755

PUBLICATION DATE: 79

TITLE: ION EXCHANGE FOR POLLUTION CONTROL - VOLUME I.

PERSONAL AUTHOR: CALMON, C.; GOLD, H.

DESCRIPTOR: *AMMONIA; *ECONOMICS; *EQUIPMENT; *ION

EXCHANGE; *HEAVY METALS; *OPERATIONS (WASTEWATER); *NITRATES; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 272P. PRICE: $79.50

ABSTRACT: INCLUDED IN VOL. I ARE 19 CHAPTERS. TOPICS COVERED INCLUDE THE ION EXCHANGE PROCESS, ION EXCHANGERS, EQUIPMENT, SYSTEMS AND ECONOMIC FACTORS, AN IN-DEPTH TREATMENT OF THE PROCESSES FOR REMOVING HEAVY METALS AND AMMONIA, AND THE RECOVERY OF NITRATES FROM A VARIETY OF WASTEWATERS.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010756

PUBLICATION DATE: 79

TITLE: ION EXCHANGE FOR POLLUTION CONTROL - VOLUME II.

PERSONAL AUTHOR: CALMON, C.; GOLD, H.

DESCRIPTOR: *EQUIPMENT; *ION EXCHANGE; *EFFLUENTS; *LABORATORY PROCEDURES; *INDUSTRIAL WASTES; *MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); *NUCLEAR WASTES; *POLYMERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 288P. PRICE: $84.50

ABSTRACT: THIS IS VOLUME II OF A TWO VOLUME SERIES. THE FOLLOWING INFORMATION IS GIVEN IN 24 CHAPTERS: BASE RECOVERY FROM SPENT SULFITE LIQUORS, DECOLORIZING WOOD PULP BLEACHING EFFLUENTS, THE USE OF POLYMERIC ABSORBENTS, THE TREATMENT OF EFFLUENTS FROM NUCLEAR AND MUNICIPAL TREATMENT PLANTS, THE USE OF ION EXCHANGE FOR LAB AND ANALYTICAL EVALUATIONS, USES OF POLYMERS WITH ACTIVE SITES, AND NEW DEVELOPMENTS IN EXCHANGERS AND PROCESSES.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010757

PUBLICATION DATE: 83

TITLE: LIVESTOCK WASTE MANAGEMENT - VOLUME 1.

PERSONAL AUTHOR: OVERCASH, MICHAEL R.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *AGRICULTURAL WASTES; *ENVIRONMENT; *INDUSTRIAL WASTES; *LIVESTOCK; *MANAGEMENT; *REGULATIONS; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 272P. PRICE: $70.00

ABSTRACT: THESE VOLUMES PROVIDE AN UP-TO-DATE, CRITICAL REVIEW OF ALTERNATIVE LIVESTOCK AND POULTRY PRODUCTION--WASTE MANAGEMENT STRATEGIES WHICH SATISFY EXISTING AND DEVELOPING ENVIRONMENTAL CRITERIA. A PERSPECTIVE ON THE OVERALL APPROACH TO WASTE MANAGEMENT SYSTEMS IS PROVIDED, AS WELL AS SUFFICIENT DATA AND GUIDANCE TO HELP YOU SELECT OR DEVELOP COMPLETE DESIGNS FOR VARIOUS SYSTEMS. VOLUME I PRESENTS A BRIEF INTRODUCTION TO LIVESTOCK WASTE MANAGEMENT; SETS THE REGULATORY STAGE; AND DETAILS THE HOUSING, PRODUCTION, AND WASTE CHARACTERISTICS ASSOCIATED WITH BEEF, DAIRY, POULTRY, SWINE, AND MISCELLANEOUS ANIMALS.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCO RATON, FL 33431

IRIS ACCESSION NUMBER: EW010758

PUBLICATION DATE: 83

TITLE: LIVESTOCK WASTE MANAGEMENT - VOLUME 2.

PERSONAL AUTHOR: OVERCASH, MICHAEL R.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *AGRICULTURAL WASTES; *INDUSTRIAL WASTES; *LIVESTOCK; *LAND APPLICATION; *MANAGEMENT; *FERTILIZER; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 264P. PRICE: $70.00

ABSTRACT: THIS IS VOLUME II OF A TWO VOLUME SERIES. VOLUME II BEGINS WITH THE PROCESSES THAT SIGNIFICANTLY ALTER THE AMOUNT AND CONCENTRATION OF LIVESTOCK WASTES. UTILIZATION PROCESSES ARE COVERED, INCLUDING SOME TECHNOLOGIES THAT REMAIN IN THE DEVELOPMENTAL STAGE. SPECIAL CONSIDERATION IS GIVEN TO THE ULTIMATE DISPOSITION ON THE PLANT-SOIL SYSTEM OF MANURE OR RESIDUES FROM PRETREATMENT UTILIZATION SCHEMES. THE FERTILIZER BENEFITS, NONPOINT SOURCE IMPACTS, AND EQUIPMENT FOR LAND APPLICATION ARE ALSO INCLUDED.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010759

PUBLICATION DATE: 80

TITLE: METHANE PRODUCTION FROM WASTE ORGANIC MATTER.

PERSONAL AUTHOR: STAFFORD, D. A.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *AGRICULTURAL WASTES; *ENERGY; *GARBAGE; *INDUSTRIAL WASTES; *METHANE; *RECYCLING; *RESEARCH; *SEWAGE; *SLUDGE

DESCRIPTIVE NOTE: 304P. PRICE: $89.50

ABSTRACT: FOOD FACTORY WASTES, FARM WASTES, GARBAGE, AND SEWAGE SLUDGE HAVE TO BE DEVELOPED AS COMMERCIAL SUBSTRATES FOR METHANE PRODUCTION. THIS BOOK DISCUSSES THE ABOVE POINTS TOGETHER WITH RECENT FINDINGS FROM THE AUTHORS RESEARCH AND THOSE OF OTHERS IN THE FIELD.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010760
PUBLICATION DATE: 82

TITLE: ORGANIC MATERIALS IN AQUATIC ECOSYSTEMS.

PERSONAL AUTHOR: ORGANIC MATERIALS IN AQUATIC ECOSYSTEMS.

DESCRIPTOR: *AQUATIC ENVIRONMENTS; *BIOLOGY; *ENERGY; *ECOSYSTEMS; *ECOLOGY; *FOOD CHAINS; *ORGANIC COMPOUNDS; *WATER

DESCRIPTIVE NOTE: 208P. PRICE: $67.00

ABSTRACT: AN EXAMINATION OF THE LIVES AND ROLES OF ORGANIC MATERIALS WITHIN AQUATIC ECOSYSTEMS. FOOD CHAINS, ENERGY FLOWS, PHYSICAL ATTRIBUTES, DECOMPOSITION, ASSIMILATION, AND THE CYCLES OF BIOLOGICAL ELEMENTS ARE DISCUSSED IN DETAIL.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010761

PUBLICATION DATE: 82

TITLE: POLLUTANT TRANSFER AND TRANSPORT IN THE SEA - VOLUME 1.

PERSONAL AUTHOR: KULLENBERG, GUNNAR E. B.

DESCRIPTOR: *CHEMISTRY; *OCEANOGRAPHY; *POLLUTION; *PHYSICS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 240P. PRICE: $78.00

ABSTRACT: DEALS WITH PHYSICAL PROCESSES IN THE OCEAN AND PREDICTIVE MODELING OF TRANSFER OF POLLUTANTS; PRESENTS RECENT IDEAS AND OBSERVATIONS OF THE PHYSICAL CONDITIONS IN THE OCEAN THAT ARE RELEVANT TO THE POLLUTION PROBLEM IN GENERAL; GIVES A BRIEF ACCOUNT OF TECHNIQUES COMMONLY USED TO INVESTIGATE EXPERIMENTALLY THE PHYSICAL SPREADING OF POLLUTANTS ON SMALL TO MESOSCALES; GIVES AN ACCOUNT OF THE AIR-SEA EXCHANGE OF POLLUTANTS, WHERE MUCH PROGRESS HAS BEEN MADE IN RECENT YEARS.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010762

PUBLICATION DATE: 82

TITLE: POLLUTANT TRANSFER AND TRANSPORT IN THE SEA - VOLUME 2.

PERSONAL AUTHOR: KULLENBERG, GUNNAR E. B.

DESCRIPTOR: *BIOLOGY; *COASTAL AREAS; *MODELS; *OCEANOGRAPHY; *OIL SPILLS; *POLLUTION; *SEDIMENTS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 248P. PRICE: $78.00

ABSTRACT: PROCESSES AND TRANSFER RELATED TO BIOLOGICAL CONDITIONS, SUSPENDED MATTER, AND SEDIMENTS ARE PRESENTED. ESTUARIES AND FJORDS ARE DISCUSSED SEPARATELY SINCE THESE COASTAL ZONES ARE CONSIDERED TO BE OF SPECIAL INTEREST. MANY ASPECTS OF OIL SPILLS ARE CONSIDERED, INCLUDING PROCESSES AND MODELING WITH A DISCUSSION OF FINDINGS FROM SEVERAL RECENT SPILLS.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCO RATON, FL 33431

IRIS ACCESSION NUMBER: EW010763

PUBLICATION DATE: 80

TITLE: THE UTILIZATION AND RECYCLE OF AGRICULTURAL WASTES AND RESIDUES.

PERSONAL AUTHOR: SHULLER, MICHAEL L.

DESCRIPTOR: *AGRICULTURE; *AGRICULTURAL WASTES; *POLLUTION; *POLLUTION CONTROL; *RECYCLING; *WASTE DISPOSAL; *WASTE USE

DESCRIPTIVE NOTE: 304P. PRICE: $86.00

ABSTRACT: THIS BOOK CRITICALLY REVIEWS THE PROCESSES THAT HAVE BEEN SUGGESTED FOR WASTE OR RESIDUE CONVERSION. SINCE THE FIELD IS VAST, WITH A DIVERSE LITERATURE, THE WORK ALSO PROVIDES EASY ACCESS FOR THOSE WITH LESS FAMILIARITY WITH AGRICULTURAL RESIDUES.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010764

PUBLICATION DATE: 83

TITLE: VIRAL POLLUTION OF THE ENVIRONMENT.

PERSONAL AUTHOR: BERG, GERALD.

DESCRIPTOR: *DRINKING WATER; *DISINFECTION; *FOODS; *WATER QUALITY; *WATER TREATMENT; *PUBLIC HEALTH; *POLLUTION; *SLUDGE; *SEWAGE; *VIRUSES; *WATER POLLUTION; *WASTEWATER

DESCRIPTIVE NOTE: 248P. PRICE: $76.00

ABSTRACT: THE BOOK FOLLOWS VIRAL POLLUTION OF THE WATER ENVIRONMENT FROM ITS ORIGIN IN SEWAGE AND SLUDGES THROUGH DISCHARGE TO RIVERS, STREAMS AND OCEANS, AND TO THE LAND. THE EVENTUAL RECYCLING OF THAT POLLUTION TO DRINKING WATER, IRRIGATION WATER, AND TO THE LIFE ENVIRONMENT OF FISH AND SHELLFISH ULTIMATELY CONSUMED BY HUMANS IS DESCRIBED. THE AUTHORS DISCUSS VIRAL HAZARDS IN DETAIL AND DESCRIBE POSSIBILITIES FOR AMELIORATING OR ABATING THE HAZARDS. A

DISCUSSION OF THE FORMATION OF CARCINOGENIC HALOMETHANES BY CHLORINATION OF WATERS AND THE CURRENTLY AVAILABLE ALTERNATIVE TO SUCH DISINFECTION HIGHLIGHTS THE BOOK.

AVAILABILITY: CRC PRESS, 2000 CORPORATE BLVD., NW, BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW010765

PUBLICATION DATE: 83

TITLE: REGULATORY COMPLIANCE MONITORING BY ATOMIC ABSORPTION SPECTROSCOPY.

PERSONAL AUTHOR: KATZ, SIDNEY A.; JENNISS, STEPHEN W.

DESCRIPTOR: *AIR QUALITY; *ATOMIC ABSORPTION SPECTROSCOPY; *ANALYTICAL TECHNIQUES; *LABORATORY PROCEDURES; *MONITORING; *REGULATIONS; *SAMPLING; *SOLID WASTES; *SPECTROSCOPY; *WASTEWATER; *WATER QUALITY

DESCRIPTIVE NOTE: 288P. PRICE: $37.50

ABSTRACT: THIS BOOK WAS PREPARED FOR THE ENVIRONMENTAL SCIENTIST WHO USES THIS TECHNIQUE TO DETERMINE HEAVY METAL LEVELS IN AIR, WATER AND WASTE-WATER, LIQUID AND SOLID WASTES, AND BIOLOGICAL TISSUES. IT IS DIRECTED TO BOTH THE PROCEDURES PRECEDING THE ABSORBANCE MEASUREMENTS AND THE CONDITIONS UNDER WHICH ATOMIC ABSORBANCE IS MEASURED: SAMPLE COLLECTION, SAMPLE PRESERVATION, AND SAMPLE DISSOLUTION ARE CONSIDERED IN THE FORMER CATEGORY, AND FLAME/FURNACE PARAMETERS, WAVELENGTH SELECTIONS, INTERFERENCES, AND QUANTITATION ARE INCLUDED IN THE LATTER. A SECTION ON QUALITY CONTROL/QUALITY ASSURANCE IS ALSO INCLUDED. THE PROCEDURES DESCRIBED IN THIS MANUAL REFLECT THE CURRENT RECOMMENDATIONS/REQUIREMENTS OF THE MAJOR REGULATORY AGENCIES IN NORTH AMERICA.

AVAILABILITY: VERLAG CHEMIE INTERNATIONAL, INC., 303 N. W. 12TH AVENUE, DEERFIELD BEACH, FL 33441

IRIS ACCESSION NUMBER: EW010766

PUBLICATION DATE: 83

TITLE: IRRIGATION ENGINEERING.

PERSONAL AUTHOR: BENAMI, A.; OFEN, A.

DESCRIPTOR: *AGRICULTURE; *ENGINEERING; *IRRIGATION; *DESIGN; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *POSTSECONDARY EDUCATION; *WATER RESOURCES

DESCRIPTIVE NOTE: 360P. PRICE: $29.00 SOFTCOVER, $30.00 HARDCOVER

ABSTRACT: THIS PUBLICATION IS CONCERNED WITH THE PRINCIPLES OF IRRIGATION ENGINEERING AND THE ELEMENTS NECESSARY FOR UNDERSTANDING THE PLANNING AND OPERATION OF IRRIGATION SYSTEMS. THE PUBLICATION INCLUDES SIX CHAPTERS: (1) WATER REQUIREMENTS AND IRRIGATION INTERVALS; (2) SPRINKLER IRRIGATION; (3) TRICKLE/DRIP; (4) FURROW IRRIGATION; (5) BORDER STRIPS; (6) OPTIMAL DESIGN OF IRRIGATION SYSTEMS.

AVAILABILITY: SOLCOOR IRRIGATION DIVISION, 1264 WEST 2ND STREET, LOS ANGELES, CA 90026

IRIS ACCESSION NUMBER: EW010767

PUBLICATION DATE: MAY 83

TITLE: ENVIRONMENTAL LAW HANDBOOK, 7TH EDITION.

PERSONAL AUTHOR: ARBUCKLE, J. GORDON; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL LAW; *HANDBOOKS; *LEGISLATION; *LAND USE; *NOISE; *PUBLIC HEALTH; *REGULATIONS; *SAFETY; *TOXIC SUBSTANCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 507P. PRICE: $48.00

ABSTRACT: THIS IS THE 7TH EDITION OF THIS PUBLICATION. THE NEW EDITION PROVIDES THREE NEW CHAPTERS ON ENVIRONMENTAL AUDITING, SUPERFUND, AND OSHA. REVISED CHAPTERS INCLUDE THOSE ON RCRA, TOXIC SUBSTANCES, AND PESTICIDES. OTHER CHAPTERS INCLUDE FUNDAMENTALS OF ENVIRONMENTAL LAW, NATIONAL ENVIRONMENTAL POLICY, WATER POLLUTION CONTROL, AIR POLLUTION CONTROL, AND NOISE.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., 966 HUNGERFORD DRIVE, #24, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW010768

PUBLICATION DATE: SEP 83

TITLE: RESEARCH PRIORITIES FOR MONITORING VIRUSES IN THE ENVIRONMENT.

PERSONAL AUTHOR: KARAGANIS, JOSEPH V.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LAND APPLICATION; *MONITORING; *PUBLIC HEALTH; *QUANTITATIVE METHODS; *RECOMMENDATIONS; *RESEARCH; *RESEARCH NEEDS; *VIRUS INDICATORS; *VIRUSES; *WATER QUALITY

DESCRIPTIVE NOTE: 12P.

ABSTRACT: A CONFERENCE WAS HELD IN 1980 BY A GROUP OF EXPERTS REGARDING MONITORING VIRUSES IN THE ENVIRONMENT. FOLLOWING THAT CONFERENCE, EPA CONVERED A SMALLER GROUP IN 1932 TO PREPARE SPECIFIC RECOMMENDATIONS FOR SETTING RESEARCH PRIORITIES FOR MONITORING VIRUSES IN THE ENVIRONMENT. THIS DOCUMENT IS THEIR REPORT. THE REPORT IS ORGANIZED INTO TWO SECTIONS, (1) SUMMARY AND RECOMMENDATIONS AND (2) RATIONALE FOR THE RECOMMENDATIONS.

AVAILABILITY: US ENVIRONMENTAL PROTECTION AGENCY, ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, CINCINNATI,

IRIS ACCESSION NUMBER: EW010769

TITLE: MEASUREMENT OF DISSOLVED OXYGEN USING MEMBRANE ELECTRODES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *CHEMISTRY; *DISSOLVED OXYGEN; *INSTRUCTIONAL MATERIALS; *EQUIPMENT; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *MAINTENANCE; *POSTSECONDARY EDUCATION; *SLIDES

DESCRIPTIVE NOTE: 39 COLOR SLIDES AND 23 PAGE SCRIPT. RENTAL PRICE: $15.00

ABSTRACT: THIS SLIDE PROGRAM IS DESIGNED TO EXPLAIN THE TECHNOLOGY OF THE POLAROGRAPHIC OXYGEN ELECTRODE AND ITS PROPER USE FOR THE MEASUREMENT OF DISSOLVED OXYGEN. THE PROGRAM COMES WITH A SCRIPT THAT IS USED BY THE YELLOW SPRINGS INSTRUMENT, COMPANY FOR THEIR EDUCATIONAL PRESENTATIONS. SEVERAL ANALYTICAL PROCEDURES ARE DESCRIBED, SOME POTENTIONAL TYPES OF ERRORS ARE CONSIDERED, AND CARE OF EQUIPMENT IS PRESENTED. THE SCRIPT CAN BE ADAPTED FOR A VARIETY OF PRESENTATIONS.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, THIRD FLOOR, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010770

PUBLICATION DATE: 83

TITLE: WASTEWATER DISCHARGERS ARE NOT COMPLYING WITH EPA POLLUTION CONTROL PERMITS.

DESCRIPTOR: *COMPLIANCE; *EPA; *ENFORCEMENT; *FEDERAL ROLE; *INDUSTRIAL WASTES; *MONITORING; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *STATE ROLE; *WASTE DISCHARGERS; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 61P.

ABSTRACT: THE CLEAN WATER ACT'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM LIMITS THE TYPE AND AMOUNT OF POLLUTION A MUNICIPAL OR INDUSTRIAL FACILITY MAY LEGALLY DISCHARGE INTO THE NATION'S WATERWAYS. BASED ON A REVIEW OF 531 RANDOMLY SELECTED MAJOR DISCHARGERS IN SIX STATES, GAO ESTIMATED THAT 82 PERCENT OF THESE DISCHARGERS EXCEEDED THEIR PERMIT LIMITS AT LEAST ONCE DURING AN 18-MONTH PERIOD AND THAT 31 PERCENT OF THE DISCHARGERS IN THE SIX STATES THAT EXCEEDED PERMIT LIMITS FOR ONE OR MORE POLLUTANTS DID SO BY 50 PERCENT OR MORE FOR AT LEAST 4 CONSECUTIVE MONTHS. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) RELIES ON SELF-MONITORING BY DISCHARGERS TO DETECT AND REPORT NONCOMPLIANCE. BECAUSE SUCH INFORMATION IS NOT ALWAYS PROVIDED OR IS INCOMPLETE, EPA AND THE STATES ARE NOT AWARE OF ALL PERMIT NONCOMPLIANCE AND, THUS, WHO SHOULD BE SUBJECT TO ENFORCEMENT ACTION. EPA AND STATE ENFORCEMENT POLICIES FREQUENTLY ALLOW NONCOMPLIANCE TO CONTINUE FOR LONG PERIODS OF TIME. IN ADDITION, EPA AND STATE ENFORCEMENT ACTIONS HAVE DECLINED. GAO MAKES SEVERAL RECOMMENDATIONS TO THE ADMINISTRATOR, EPA, FOR IMPROVING THE PERMIT PROGRAM.

AVAILABILITY: US GENERAL ACCOUNTING OFFICE, DOCUMENT HANDLING AND INFORMATION SERVICES FACILITY, P. O. BOX 6015, GAITHERSBURG, MD 20760

IRIS ACCESSION NUMBER: EW010771

PUBLICATION DATE: DEC 83

TITLE: OPERATION AND MAINTENANCE MANUAL FOR SMALL WATER SYSTEMS.

PERSONAL AUTHOR: BARBER, R. DALE

DESCRIPTOR: DISINFECTION; *INSTRUCTIONAL MATERIALS; *EQUIPMENT; MAINTENANCE; *OPERATIONS (WATER); *TROUBLESHOOTING; *SMALL SYSTEMS; SAMPLING; WATER DISTRIBUTION; WATER SUPPLY; WATER QUALITY; *WATER TREATMENT; WATER STORAGE

DESCRIPTIVE NOTE: 80P.

ABSTRACT: THIS MANUAL WAS WRITTEN TO HELP THE SMALL WATER SYSTEM OPERATOR TO EFFICIENTLY OPERATE AND MAINTAIN HIS SYSTEM. SPECIFIC SOLUTIONS HAVE BEEN GIVEN TO MANY OF THE COMMON PROBLEMS ENCOUNTERED BY SMALL SYSTEMS, SECTIONS ARE INCLUDED ON WATER SUPPLY, DISINFECTION, TRANSMISSION AND DISTRIBUTION SYSTEMS, STORAGE TANKS, WATER PUMPS, HYDROPNEUMATIC SYSTEMS, ELECTRICAL EQUIPMENT, RECORD KEEPING, AND WATER SAMPLING.

AVAILABILITY: NEW MEXICO HEALTH AND ENVIRONMENT DEPARTMENT, P. O. BOX 968, SANTA FE, NM 87504

IRIS ACCESSION NUMBER: EW010774

PUBLICATION DATE: 83

TITLE: ENGINEERING APPROACHES FOR LAKE MANAGEMENT-VOLUME 1: DATA ANALYSIS AND EMPIRICAL MODELING.

PERSONAL AUTHOR: CHAPRA, STEVEN C.; ROCKHOW, KENNETH H.

DESCRIPTOR: *DATA ANALYSIS; *ENGINEERING; *LAKES; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MODELS; *POSTSECONDARY EDUCATION; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 360P. PRICE: $39.95

ABSTRACT: THIS IS VOLUME 1 OF A TWO VOLUME SERIES ON ENGINEERING APPROACHES FOR LAKE MANAGEMENT. THE FIRST SECTION OF THIS VOLUME PRESENTS A VARIETY OF TECHNIQUES THAT CONTRIBUTE TO A STRONG OBSERVATIONAL PROGRAM. THE REMAINING SECTIONS DEAL WITH THEORY AND PRACTICE OF MODELING.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW010775
PUBLICATION DATE: 83

TITLE: ENGINEERING APPROACHES FOR LAKE MANAGEMENT-VOLUME 2: MECHANISTIC MODELING.

PERSONAL AUTHOR: CHAPRA, STEVEN C.; RECKHOW, KENNETH H.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; *LAKES; *MANAGEMENT; *MODELS; *PLANNING; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 520P. PRICE: $49.95

ABSTRACT: THIS IS VOLUME II OF A TWO-VOLUME SERIES. THIS VOLUME IS PRIMARILY CONCERNED WITH MECHANISTIC MODELS FOR LAKE WATER QUALITY. SEVERAL MODELS ARE CONSIDERED.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW010776

PUBLICATION DATE: MAR 84

TITLE: USE OF LINERS FOR CONTAINMENT AT HAZARDOUS WASTE LANDFILLS.

PERSONAL AUTHOR: COPE, FRED; AND OTHERS

DESCRIPTOR: *COSTS; *DESIGN; *DISPOSAL SITES; *HAZARDOUS WASTES; *LINERS; *LAND USE; *PERFORMANCE EVALUATION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 22-32P.

ABSTRACT: THIS ARTICLE CONSIDERS LINERS FOR THE CONTAINMENT OF HAZARDOUS WASTES. TYPES OF LINERS AND SELECTION CRITERIA ARE DESCRIBED AND DISCUSSED. ADVANTAGES AND DISADVANTAGES OF EACH ARE PRESENTED.

AVAILABILITY: POLLUTION ENGINEERING; V16 N3

IRIS ACCESSION NUMBER: EW010777

PUBLICATION DATE: MAR 84

TITLE: TAKING THE SPIKES OUT OF ULTRASONIC FLOW MEASUREMENT.

PERSONAL AUTHOR: GOLTZ, DAN

DESCRIPTOR: *COMPUTER SOFTWARE; *FLOWMETERS; *FLOW MEASUREMENT; *FLUID FLOW; *MONITORING; *SPIKE ELIMINATION; *ULTRASONIC METHODS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 36-37P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR TAKING SPIKES OUT OF MEASUREMENTS OF ULTRASONIC FLOW MEASUREMENT.

AVAILABILITY: POLLUTION ENGINEERING; V16 N3

IRIS ACCESSION NUMBER: EW010778

PUBLICATION DATE: MAR 84

TITLE: NEW DESIGN COMBINES CONCEPTS TO CUT COSTS.

PERSONAL AUTHOR: CHRISTOPHER, STAN A.; TITUS, RUSSELL L.

DESCRIPTOR: *COSTS; *DESIGN; *ECONOMICS; *FACILITIES; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40-41P.

ABSTRACT: DESCRIBED IS AN INNOVATIVE WASTEWATER TREATMENT SYSTEM. THE SYSTEM CUTS CAPITAL AND OPERATION/MAINTENANCE COSTS WITH ITS SIMPLICITY.

AVAILABILITY: POLLUTION ENGINEERING; V16 N3

IRIS ACCESSION NUMBER: EW010779

PUBLICATION DATE: MAR 84

TITLE: RAPID URBANIZATION? DON'T FORGET STORM DRAINAGE.

PERSONAL AUTHOR: DEBO, THOMAS N.

DESCRIPTOR: *COSTS; *DRAINAGE; *FACILITIES; *PLANNING; *STORM RUNOFF; *SURFACE RUNOFF

DESCRIPTIVE NOTE: 58-61P.

ABSTRACT: ANTICIPATING RAPID POPULATION GROWTH DUE TO CONSTRUCTION OF A NAVAL BASE, A RURAL COUNTY MADE PLANS FOR A DRAINAGE PROGRAM. A DISCUSSION OF THIS GEORGIA COUNTIES PLANNING IS PRESENTED.

AVAILABILITY: PUBLIC WORKS; V115 N3

IRIS ACCESSION NUMBER: EW010780

PUBLICATION DATE: MAR 84

TITLE: SEALING LEAKS THAT ARE HARD TO REACH.

PERSONAL AUTHOR: ELMORE, BILL R.

DESCRIPTOR: *MAINTENANCE; *PIPES; *SEWAGE PIPES; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 64-65P.

ABSTRACT: AN INTERNAL PIPELINE SEALING PROCESS WAS THE

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ANSWER WHERE ACCESS WAS A DIFFICULT PROBLEM. A PROCEDURE FOR SEALING GAPS BETWEEN PIPES IS DESCRIBED.

AVAILABILITY: PUBLIC WORKS; V115 N3

IRIS ACCESSION NUMBER: EW010781

PUBLICATION DATE: MAR 84

TITLE: WATER SUPPLY OPERATOR'S GUIDE TO CROSS CONNECTION CONTROL.

PERSONAL AUTHOR: CONLON, THOMAS J.

DESCRIPTOR: *CROSS-CONNECTIONS; *DRINKING WATER; *GUIDELINES; *INSPECTION; *OPERATIONS (WATER); *PUBLIC HEALTH; *RECORDS; *WATER SUPPLY

DESCRIPTIVE NOTE: 70-73P.

ABSTRACT: DESCRIBED ARE WAYS TO ESTABLISH AND MAINTAIN AN EFFECTIVE CROSS CONNECTION CONTROL PROGRAM FOR WATER SUPPLY. HIGH RISK CONSUMERS SHOULD BE CONTACTED AND GOOD INSPECTION RECORDS NEED TO BE MAINTAINED.

AVAILABILITY: PUBLIC WORKS; V11[illegible] N3

IRIS ACCESSION NUMBER: EW010782

PUBLICATION DATE: MAR 84

TITLE: COMPUTERS ENCOURAGE PEAK PERFORMANCE IN PUBLIC WORKS.

DESCRIPTOR: *COLORADO; *COMPUTERS; *COMPUTER APPLICATIONS; *ENGINEERING; *GENERAL SERVICES; *PUBLIC WORKS; *TRANSPORTATION SERVICES; *WATER UTILITIES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 30-35P.

ABSTRACT: DESCRIBED ARE EXAMPLES OF THE WAY A PUBLIC WORKS ORGANIZATION USES COMPUTERS TO CUT COSTS AND EXPAND OPERATIONS.

AVAILABILITY: PUBLIC WORKS; V115 N3

IRIS ACCESSION NUMBER: EW010783

PUBLICATION DATE: MAR 84

TITLE: EFFECTS OF ACID RAIN ON WATER SUPPLIES IN THE NORTHEAST.

PERSONAL AUTHOR: TAYLOR, FLOYD B.; SYMONS, GEORGE E.

DESCRIPTOR: *ACID RAIN; *AQUIFERS; *DRINKING WATER; *MONITORING; *PUBLIC HEALTH; *RESEARCH; *WATERSHEDS; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 35-41P.

ABSTRACT: ADEQUATE TREATMENT IS THE SOLUTION FOR MAINTAINING ACCEPTABLE WATER QUALITY. RESULTS OF A STUDY CONCERNING THE IMPACT OF ACID PRECIPITATION ON DRINKING WATER ARE REPORTED. THE STUDY FOCUSED ON THE NORTHEAST U. S. NO ADVERSE EFFECTS ON HUMAN HEALTH WERE DEMONSTRATED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010784

PUBLICATION DATE: MAR 84

TITLE: THE DILEMMA OF AN ACIDIC SKY.

PERSONAL AUTHOR: JENKINS, TOM

DESCRIPTOR: *ACID RAIN; *BIBLIOGRAPHIES; *ENVIRONMENTAL EFFECTS; *ECONOMICS; *LEGISLATION; *PLANNING; *PUBLIC HEALTH; *REGULATIONS; *RESEARCH; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 42-49P.

ABSTRACT: AN OVERVIEW OF THE CAUSE, EFFECTS, AND CONTROL OF ACID RAIN PROVIDES A PERSPECTIVE OF THE PROBLEM. A NUMBER OF RESEARCH STUDIES ARE REVIEWED AND A COMPREHENSIVE BIBLIOGRAPHY IS PROVIDED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010785

PUBLICATION DATE: MAR 84

TITLE: THE EFFECTS OF ACID PRECIPITATION RUNOFF ON SOURCE WATER QUALITY.

PERSONAL AUTHOR: LEIBFRIED, ROBERT T.; AND OTHERS

DESCRIPTOR: *ACID RAIN; *ACID PRECIPITATION; *MONITORING; *PENNSYLVANIA; *PUBLIC HEALTH; *RESEARCH; *STREAMS; *SURFACE RUNOFF; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 50-53P.

ABSTRACT: DISCUSSED ARE THE EFFECTS OF ACID PRECIPITATION RUNOFF ON WATER QUALITY. THE ARTICLE IS BASED ON ANALYSES CONDUCTED ON TWO PENNSYLVANIA STREAMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURANL; V76 N3

IRIS ACCESSION NUMBER: EW010786

PUBLICATION DATE: MAR 84

TITLE: CURRENT RESEARCH ON THE EFFECTS OF ACID DEPOSITION.

PERSONAL AUTHOR: PERRY, JAMES A.

DESCRIPTOR: *ACID RAIN; *ECONOMICS; *ENVIRONMENTAL EFFECTS; *MONITORING; *PUBLIC HEALTH; *RESEARCH; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 54-59P.

ABSTRACT: EFFECTS OF ACID DEPOSITION, CURRENT RESEARCH AND GAPS IN KNOWLEDGE ABOUT THE EFFECTS ARE DISCUSSED. POSSIBLE CONTROLS TO REDUCE ACID RAIN AND PROCEDURES FOR TREATING WATER ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010787

PUBLICATION DATE: MAR 84

TITLE: ACID PRECIPITATION AND DRINKING WATER SUPPLIES.

PERSONAL AUTHOR: REED, JOHN S.; HENNINGSON, JOHN C.

DESCRIPTOR: *BIBLIOGRAPHIES; *ACID RAIN; *CORROSION; *ENVIRONMENTAL EFFECTS; *MANAGEMENT; *PUBLIC HEALTH; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 60-65P.

ABSTRACT: MEASURES TO CONTROL AND MANAGE WATER SUPPLIES THAT ARE SUBJECT TO ACID DEPOSITION ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010788

PUBLICATION DATE: MAR 84

TITLE: TEMPERATURE EFFECTS ON THE USE OF METAL-ION COAGULANTS FOR WATER TREATMENT.

PERSONAL AUTHOR: MORRIS, JULI K.; KNOCKE, WILLIAM R.

DESCRIPTOR: *ALUM; *COAGULATION; *FERRIC CHLORIDE; *OPERATIONS (WATER); *PRECIPITATION; *RESEARCH; *TEMPERATURE; *TURBIDITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 74-79P.

ABSTRACT: LOW TEMPERATURE IMPEDES TURBIDITY REMOVAL BY METAL-ION COAGULENTS, ESPECIALLY ALUM. TEMPERATURE DID NOT SIGNIFICANTLY INHIBIT THE RATE OF METAL-ION PRECIPITATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010789

PUBLICATION DATE: MAR 84

TITLE: AIR STRIPPING OF TASTE AND ODOR COMPOUNDS FROM WATER.

PERSONAL AUTHOR: LALEZARY, SHAHLA; AND OTHERS

DESCRIPTOR: *AIR STRIPPING; *ODORS; *OPERATIONS (WATER); *RESEARCH; *TASTES; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 83-87P.

ABSTRACT: A SPECIAL APPLICATION OF CLOSED-LOOP STRIPPING ANALYSIS IS DESCRIBED IN THIS STUDY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010790

PUBLICATION DATE: MAR 84

TITLE: COMPUTERS TAKE OVER CLOVIS.

DESCRIPTOR: *CALIFORNIA; *COMPUTER APPLICATIONS; *COMPUTERS; *AUTOMATIC CONTROLS; *MANAGEMENT; *WATER DISTRIBUTION; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 98P.

ABSTRACT: DESCRIBED IS A COMPUTERIZED WATER AND SEWER CONTROL SYSTEM IN CLOVIS, CALIFORNIA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N3

IRIS ACCESSION NUMBER: EW010791

PUBLICATION DATE: MAR 84

TITLE: CONTRACT ASSURES VANCOUVER QUALITY SEWAGE TREATMENT.

DESCRIPTOR: *CONTRACT SERVICES; *ECONOMICS; *MANAGEMENT; *WASHINGTON; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 48, 51P.

ABSTRACT: VANCOUVER, WASHINGTON ENTERED INTO A CONTRACT WITH ENVIROTECH OPERATING SERVICES (EOS) TO OPERATE ITS WASTEWATER TREATMENT FACILITIES. THE CONTRACT WAS AWARDED FOR 10 YEARS. THE CONTRACT GIVES STABILITY TO THE CITY'S PROGRAM AND PROVIDES AN EXPERIENCED ORGANIZATION TO OPERATE THE FACILITIES.

AVAILABILITY: AMERICAN CITY & COUNTY; V99 N3

IRIS ACCESSION NUMBER: EW010792

PUBLICATION DATE: MAR 84

TITLE: GROUNDWATER PLAN SIDESTEPS CONTAMINATION WOES.

PERSONAL AUTHOR: KLINER, SUZANNE M.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *PLANNING; *REGULATIONS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 27-29, 52-53.P.

ABSTRACT: DISCOVERIES OF TOXIC CONTAMINANTS IN PUBLIC WATER SUPPLIES OR THEIR SOURCES RECEIVE WIDE PUBLICITY AND OFTEN AROUSE PUBLIC ALARM. MUNICIPAL MANAGERS CAN AVOID SUCH TROUBLES WITH A GROUNDWATER PROTECTION PLAN. SOURCES OF GROUNDWATER CONTAMINATION, REGULATORY MEASURES, AND PROCEDURES FOR DEALING WITH CONTAMINATION ARE CONSIDERED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N3

IRIS ACCESSION NUMBER: EW010793

PUBLICATION DATE: MAR 84

TITLE: CROSS-DISCIPLINE HARMONY KEEPS GROUNDWATER MONITORING EFFORTS IN TUNE.

PERSONAL AUTHOR: KORTE, NIC E.; KEARL, PETER M.

DESCRIPTOR: *COMMUNICATION; *GROUNDWATER; *MANAGEMENT; *MONITORING; *PLANNING; *PERSONNEL; *RESPONSIBILITIES; *WATER POLLUTION CONTROL; *WATER QUALLTY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: GROUNDWATER MONITORING OBJECTIVES CAN BE ACHIEVED SUCCESSFULLY IF INTERDISCIPLINARY RELATIONSHIPS AMONG THE EXPERTS INVOLVED ARE SPELLED OUT EARLY IN THE PROGRAM. PERSONNEL NEEDED FOR A SUCCESSFUL PROGRAM ARE IDENTIFIED. IN ADDITION, RESPONSIBILITIES AND COMMUNICATION PROCEDURES ARE DISCUSSED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N3

IRIS ACCESSION NUMBER: EW010794

PUBLICATION DATE: MAR 84

TITLE: COMPRESSOR DESIGN TO MEET VARIABLE AIR NEEDS.

PERSONAL AUTHOR: ESHELMAN, ROBERT H.

DESCRIPTOR: *AIR COMPRESSORS; *EQUIPMENT; *EQUIPMENT SELECTION; *OPERATIONS (WASTEWATER); *PLANNING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 35-37P.

ABSTRACT: AIR COMPRESSION SYSTEM DESIGNS FOR MUNICIPAL WASTEWATER TREATMENT PLANTS HAVE TO TAKE THE UNCONTROLLED CHARACTERISTICS OF THE INFLUENTS INTO CONSIDERATION. VARIABLES TO CONSIDER AND EXAMPLES OF EQUIPMENT ARE DISCUSSED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N3

IRIS ACCESSION NUMBER: EW010795

PUBLICATION DATE: MAR 84

TITLE: BIOBRICKS BECOME A CONSTRUCTION REALITY.

PERSONAL AUTHOR: BRYAN, EDWARD H.

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *BIOBRICKS; *BRICKS; *BUILDING MATERIALS; *ECONOMICS; *MARKETING; *RECYCLING; *RESEARCH; *SEWAGE SLUDGE; *SLUDGE; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 38-39,59P.

ABSTRACT: A PROJECT TO INCORPORATE WASTEWATER TREATMENT PLANT SLUDGE IN CERAMIC BUILDING COMPONENTS CULMINATED IN THE COMPLETION OF A PARK PICNIC SHELTER CONSTRUCTED WITH "BIOBRICKS". RESEARCH RELATED TO THE PRODUCTION TESTING, AND USE OF THE BRICKS IS PRESENTED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N3

IRIS ACCESSION NUMBER: EW010796

PUBLICATION DATE: MAR 84

TITLE: MOTOR CONTROLS PAY SLUDGE HANDLING DIVIDENDS.

PERSONAL AUTHOR: MORRIS, LARRY G.

DESCRIPTOR: *ELECTRONIC SPEED CONTROLS; *EQUIPMENT; *MOTORS; *OPERATIONS (WASTEWATER); *PUMPS; *SLUDGE DEWATERING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40-41P.

ABSTRACT: ELECTRONIC SPEED CONTROLS RETROFITTED TO PUMPING INSTALLATIONS HAVE INCREASED THE EFFICIENCY OF A SLUDGE DEWATERING AND HANDLING OPERATION. AN APPLICATION AT A KENTUCKY WASTEWATER TREATMENT PLANT IS DISCUSSED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N3

IRIS ACCESSION NUMBER: EW010797

PUBLICATION DATE: MAR 84

TITLE: STATE-OF-THE-ART DISPOSAL ALTERNATIVES.

PERSONAL AUTHOR: MACKIE, JAY

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *HAZARDOUS WASTES; *HAZARDOUS MATERIALS; *PUBLIC HEALTH; *RESEARCH; *TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 45-47P.

ABSTRACT: ALTERNATIVE TECHNOLOGIES MEAN MORE THAN JUST DISPOSAL; THEY CAN PROVIDE SOLUTIONS TO MANY WASTE MANAGEMENT PROBLEMS. POTENTIAL PROBLEMS, POSSIBLE TECHNOLOGIES, AND PROBLEMS RELATED TO THE USE OF TECHNOLOGIES ARE CONSIDERED. SOME SUGGESTIONS FOR POSSIBLE ACTIONS ARE PRESENTED.

AVAILABILITY: CONSULTING ENGINEER; V62 N3

IRIS ACCESSION NUMBER: EW010798

PUBLICATION DATE: MAR 84

TITLE: THE SENSITIVE ART OF SITING TREATMENT FACILITIES.

PERSONAL AUTHOR: BOYLE, DAVID F.; SORENSEN, PAUL B.

DESCRIPTOR: *HAZARDOUS WASTES; *ECONOMICS; *MANAGEMENT; *PLANNING; *PUBLIC HEALTH; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TREATMENT

DESCRIPTIVE NOTE: 43-51P.

ABSTRACT: INDUSTRY, GOVERNMENT, AND THE PUBLIC MUST WORK TOGETHER TO DEVELOP NEW WAYS TO SAFELY HANDLE BOTH OLD AND NEW WASTES. THIS ARTICLE CONSIDERS PROBLEMS ASSOCIATED WITH SITING OF FACILITIES FOR TREATING, STORING, AND DISPOSING OF HAZARDOUS WASTES.

AVAILABILITY: CONSULTING ENGINEER; V62 N3

IRIS ACCESSION NUMBER: EW010799

PUBLICATION DATE: SEP 83

TITLE: A FIELD OF AN AIR TRANSPORTABLE INCINERATOR.

PERSONAL AUTHOR: SHUKE, D.

DESCRIPTOR: *INCINERATORS; *OIL SPILLS; *OIL DEBRIS; *PERFORMANCE EVALUATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 103-106P.

ABSTRACT: DESCRIBED ARE TESTS OF AN AIR TRANSPORTABLE INCINERATOR FOR BURNING OIL DEBRIS FROM OIL SPILLS. THE TESTS INDICATED THE INCINERATOR WAS EFFECTIVE. IT WAS CONSIDERED SIMPLE, RELIABLE, AND EASY TO TRANSPORT.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETTER; V8 N5

IRIS ACCESSION NUMBER: EW010800

PUBLICATION DATE: SEP 83

TITLE: A SIMPLE FIELD EFFECTIVENESS TEST FOR DISPERSANTS.

PERSONAL AUTHOR: ABBOTT, F. S.

DESCRIPTOR: *DISPERSANTS; *FIELD TESTS; *LABORATORY PROCEDURES; *OIL; *OIL SPILLS; *PERFORMANCE EVALUATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 107-108P.

ABSTRACT: DESCRIBED IS A QUICK, CHEAP FIELD TEST FOR DETERMINING THE EFFECTIVENESS OF A DISPERSANT FOR OIL SPILLS.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETTER; V8 N5

IRIS ACCESSION NUMBER: EW010814

PUBLICATION DATE: APR 80

TITLE: ACCOUNTING FOR RURAL WATER SYSTEMS-A PRACTICAL APPROACH.

PERSONAL AUTHOR: FITE, J. STEVE

DESCRIPTOR: *ACCOUNTING; *ADMINISTRATION; *BOOKKEEPING; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *RECORDKEEPING; *RURAL AREAS; *SMALL SYSTEMS; *WATER UTILITIES

DESCRIPTIVE NOTE: 122P.

ABSTRACT: THIS BOOK IS DESIGNED FOR THE MANAGER OF A RURAL WATER SYSTEM. THE GUIDE CONTAINS THE MOST SIMPLIFIED ACCOUNTING POSSIBLE TO MEET SYSTEM NEEDS. CHAPTERS ARE INCLUDED ON ACCOUNTS, BOOKKEEPING, ASSETS, LIABILITIES, EQUITIES, INCOME, EXPENSES, CONSTRUCTION, FMHA REPORTING, AUDITS AND FINANCIAL ANALYSIS, AND STATE RURAL WATER ASSOCIATIONS.

AVAILABILITY: FARMERS HOME ADMINISTRATION, U. S. DEPARTMENT OF AGRICULTURE, WASHINGTON, DC 20036

IRIS ACCESSION NUMBER: EW010815

PUBLICATION DATE: APR 83

TITLE: FISCAL OPERATIONS 8 MANAGEMENT FOR THE SMALL WATER UTILITY.

PERSONAL AUTHOR: COMMONWEALTH OF PENNSYLVANIA; DEPARTMENT OF COMMUNITY AFFAIRS

DESCRIPTOR: *CONSULTING SERVICES; *ECONOMICS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; *PUBLIC RELATIONS; *RECORDKEEPING; *REGULATORY AGENCIES; *WATER RATES; *WATER UTILITIES; *WATER SUPPLY

DESCRIPTIVE NOTE: 167P. PRICE: $1.00 PER DOCUMENT PLUS $0.03 PER PAGE.

ABSTRACT: THE PURPOSE OF THIS MANUAL IS TO HELP THE SMALL MUNICIPAL-OWNED WATER SYSTEM, SMALL WATER AUTHORITY, AND THE SMALL WATER PRIVATE INVESTOR UNDERSTAND MANAGEMENT PROBLEMS. THE MANUAL PROVIDES GUIDANCE FOR MANAGEMENT, FINANCING, AND RATE PROCEDURES. CHAPTERS ARE INCLUDED ON ORGANIZATIONAL NEEDS, PLANNING, TIME MANAGEMENT, PERSONNEL MANAGEMENT, FINANCIAL MANAGEMENT, PUBLIC RELATIONS, RECORD KEEPING, OPERATING AND MAINTENANCE MANAGEMENT, CONSULTING SERVICES, WATER RATES, AND REGULATORY AGENCIES.

AVAILABILITY: EPA INSTRUCTIONAL RESOURCES CENTER, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW010817

PUBLICATION DATE: DEC 83

TITLE: NTIS ENVIRONMENTAL POLLUTION 8 CONTROL-AN ABSTRACT NEWSLETTER 1983 ANNUAL INDEX.

DESCRIPTOR: *AIR; *ENVIRONMENT; *HEALTH; *INDEXES; *RESEARCH REPORTS; *SAFETY; *POLLUTION CONTROL; *NOISE; *PESTICIDES; *RADIATION; *SOLID WASTES; *WASTEWATER; *WATER; *POLLUTION

DESCRIPTIVE NOTE: 435P. PB83-906852

ABSTRACT: THIS IS THE ANNUAL INDEX FOR 1983 FOR MATERIALS ANNOUNCED THROUGH THE NATIONAL TECHNICAL INFORMATION SERVICE. TOPICS COVERED INCLUDE AIR, NOISE, SOLID WASTES, WATER, PESTICIDES, RADIATION, ENVIRONMENTAL HEALTH AND SAFETY, AND ENVIRONMENTAL IMPACT STATEMENTS. ITEMS ARE INDEXED BY TOPIC AND PROVIDE TITLE AND AVAILABILITY INFORMATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010818

PUBLICATION DATE: 84

TITLE: TOXICITY TESTING: STRATEGIES TO DETERMINE NEEDS AND PRIORITIES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *LABORATORY PROCEDURES; *PRIORITIES; *PUBLIC HEALTH; *RESEARCH NEEDS; *RESEARCH REPORTS; *TOXIC SUBSTANCES; *TOXICITY TESTING

DESCRIPTIVE NOTE: 400P. PRICE $22.50 U. S., CANADA, AND MEXICO $27.00 EXPORT

ABSTRACT: THIS IS THE FINAL REPORT OF FOUR COMMITTEES (AND OTHERS) ORGANIZED TO (1) CHARACTERIZE THE STATUS OF TOXICITY-TESTING INFORMATION ON SUBSTANCES AND (2) DEVELOP CRITERIA FOR SETTING RESEARCH PRIORITIES ON SUBSTANCES WITH POTENTIALLY ADVERSE PUBLIC-HEALTH IMPACTS. FROM 65725 SUBSTANCES IDENTIFIED, 675 SUBSTANCES WERE RANDOMLY SELECTED FOR FURTHER WORK. FROM THIS SAMPLE, A SUBSAMPLE OF 100 SUBSTANCES WAS SELECTED BY SCREENING FOR THE PRESENCE OF AT LEAST SOME TOXICITY INFORMATION. DATA CONSIDERED TO BE ESSENTIAL FOR CONDUCTING HEALTH HAZARD ASSESSMENTS ARE LACKING FOR MOST OF THE SUBSTANCES. THIS REPORT PRESENTS CRITERIA FOR SELECTING SUBSTANCES AND DETERMINING TOXICITY-TESTING NEEDS, PROVIDES ESTIMATES OF THOSE NEEDS, AND DESCRIBES SOME USEFUL CRITERIA FOR ASSIGNING PRIORITIES FOR TOXICITY TESTING.

AVAILABILITY: NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVENUE, WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW010819

PUBLICATION DATE: 84

TITLE: STUDIES IN GEOPHYSICS: GROUNDWATER CONTAMINATION.

DESCRIPTOR: *AQUIFERS; *CHEMISTRY; *CONTAMINATION; *GROUNDWATER; *FEDERAL ROLE; *LITERATURE REVIEWS; *RESEARCH NEEDS; *REGULATIONS; *RISK ASSESSMENT; *STATE ROLE; *TRANSPORT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 191P. PRICE: $17.95

ABSTRACT: THIS STUDY ADDRESSES OUR CURRENT SCIENTIFIC UNDERSTANDING OF GROUNDWATER CONTAMINANT TRANSPORT-BOTH BY THEORY AND BY INVESTIGATION OF CONTAMINATED ACQUIFERS. THE STUDY ALSO LOOKS AT MANY OF THE FUNDAMENTAL QUESTIONS AND UNCERTAINTIES THAT REQUIRE ADDITIONAL SCIENTIFIC RESEARCH FOR THE PREDICTION OF CONTAMINANT TRANSPORT AND THE CONTROL OF GROUNDWATER CONTAMINATION. CHAPTER 1 BRIEFLY EXAMINES THE MAGNITUDE AND NATURE OF THE PROBLEM. CHAPTERS 2 AND 3 REVIEW CONTAMINENT TRANSPORT AND CHEMISTRY. CHAPTERS 4 AND 5 REVIEW PROBLEMS ASSOCIATED WITH WASTE DISPOSAL METHODS. CHAPTER 6 THROUGH 12 PROVIDE EXAMPLES OF WASTE DISPOSAL AND AQUIFER RECLAMATION. THE FINAL TWO CHAPTERS INTRODUCE SOME OF THE INSTITUTIONAL CONSIDERATIONS FOR WASTE DISPOSAL AND THE PREVENTION OF GROUNDWATER CONTAMINATION.

AVAILABILITY: NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVENUE, N. W., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW010820

PUBLICATION DATE: OCT 83

TITLE: IMPROVEMENTS NEEDED IN EPA'S INSPECTOR GENERAL OPERATIONS.

DESCRIPTOR: *AUDITS; *EPA; *GUIDELINES; *INSPECTOR GENERAL; *INVESTIGATIONS; *PERFORMANCE EVALUATION; *RECOMMENDATIONS

DESCRIPTIVE NOTE: 52P.

ABSTRACT: REPORTED IS A GAO REVIEW OF THE EPA'S INSPECTOR GENERAL OPERATIONS. GAO FOUND THAT ALTHOUGH MOST INVESTIGATIONS APPEAR TO HAVE BEEN HANDLED PROPERLY, IN SOME CASES ALL RELEVANT MATTERS WERE NOT FOLLOWED UP AND CONSISTENTLY ADDRESSED. GAO ALSO NOTED THE NEED TO USE INVESTIGATIVE RESOURCES MORE EFFECTIVELY AND TO PROVIDE MORE BALANCED AUDIT COVERAGE.

AVAILABILITY: U. S. GENERAL ACCOUNTING OFFICE, DOCUMENT HANDLING AND INFORMATION SERVICES FACILITY, P. O. BOX 6015, GAITHERSBURG, MD 20760

IRIS ACCESSION NUMBER: EW010822

PUBLICATION DATE: FEB 84

TITLE: DOD CAN MAKE FURTHER PROGRESS IN CONTROLLING POLLUTION FROM ITS SEWAGE TREATMENT PLANTS.

DESCRIPTOR: *COMPLIANCE; *DEPARTMENT OF DEFENSE; *CONSTRUCTION; *DESIGN; *FACILITIES; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 66P.

ABSTRACT: THIS REPORT DISCUSSES DEPARTMENT OF DEFENSE (DOD) EFFORTS TO CONTROL POLLUTION FROM ITS SEWAGE TREATMENT PLANT OPERATIONS. DOD HAS ABOUT 560 MAJOR INSTALLATIONS IN THE UNITED STATES. WHILE IMPROVEMENTS HAVE BEEN MADE, DESIGN AND CONSTRUCTION PROBLEMS STILL PERSIST. IN MANY INSTANCES OPERATION AND MAINTENANCE PROBLEMS ALSO AFFECT COMPLIANCE. RECOMMENDATIONS FOR IMPROVING OPERATIONS ARE PROVIDED.

AVAILABILITY: U. S. GENERAL ACCOUNTING OFFICE, DOCUMENT HANDLING AND INFORMATION SERVICES FACILITY, P. O. BOX 6015, GAITHERSBURG, MD 20760

IRIS ACCESSION NUMBER: EW010823

PUBLICATION DATE: JAN 84

TITLE: ACTIVATED SLUDGE TREATMENT. 1978-1981 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE).

DESCRIPTOR: *ACTIVATED SLUDGE; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *DOMESTIC WASTES; *INDUSTRIAL WASTES; *PERFORMANCE EVALUATION; *RESEARCH; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 268P. PRICE CODE: PC N01/MF N01; PB84-157697

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE ACTIVATED SLUDGE PROCESS IN TREATING INDUSTRIAL AND DOMESTIC WASTE. INCLUDED ARE CITATIONS DEALING WITH APPARATUS DESIGN, PARAMETERS FOR EFFECTIVENESS, AND ORGANISMS UTILIZED IN THE VARIOUS PROCESSES. PERFORMANCE EVALUATIONS AND APPLICATIONS OF THE VARIOUS PROCESSES FOR THE PURIFICATION AND REMOVAL OF UNWANTED SUBSTANCES FROM SEWAGE AND WASTE WATER ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 312 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010825

PUBLICATION DATE: 83

TITLE: AFFLUENT EFFLUENT: NEW CHOICES IN WASTEWATER TREATMENT.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *CASE HISTORIES; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 62P. PRICE CODE: PC A04/MF A01; PB84-133966

ABSTRACT: THIS PUBLICATION IS A COLLECTION OF CASE HISTORIES ILLUSTRATING THE SUCCESSFUL USE OF INNOVATIVE AND ALTERNATIVE WASTEWATER TREATMENT SYSTEMS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010826

PUBLICATION DATE: JAN 84

TITLE: ANALYSIS OF WATER-SOLUBLE ORGANICS.

PERSONAL AUTHOR: SADOWSKI, L. H.; HARRIS, J. C.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *CHEMISTRY; *LABORATORY PROCEDURES; *ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 166P. PRICE CODE: PC A08/MF A01; PB84-141225

ABSTRACT: THE REPORT GIVES RESULTS OF SEVERAL ANALYTICAL PROCEDURES FOR SEPARATING AND DETECTING NON-EXTRACTABLE WATER-SOLUBLE ORGANIC MATERIAL, INCLUDING LOW MOLECULAR WEIGHT ACIDS, ALCOHOLS, KETONES, AND OTHER CATEGORIES OF COMPOUNDS. (THERE ARE MANY WAYS TO ANALYZE HYDROPHOBIC EXTRACTABLE ORGANICS, BUT FEW FOR HYDROPHILIC MATERIALS.) AN ANALYTICAL SCHEME HAS BEEN DEVELOPED THAT UTILIZES SEVERAL CHROMATOGRAPHIC PROCEDURE STANDARDS WITH KNOWN WATER-SOLUBLE COMPOUNDS FROM A VARIETY OF COMPOUND CATEGORIES. THE PRECISION AND ACCURACY DATA FOR EACH COMPOUND ANALYZED USING THESE CHROMATOGRAPHIC SYSTEMS ARE REPORTED. ADDITIONAL AREAS DESCRIBED IN THE REPORT INCLUDE: (1) THE APPLICATION OF TOTAL ORGANIC CARBON/FREEZE DRYING TO MONITOR AND CONCENTRATE NON-EXTRACTABLE WATER-SOLUBLE ALCOHOLS FROM

WATER; (2) THE DETECTION OF SPECIFIC COMPOUND CATEGORIES USING COLORIMETRIC PROCEDURES SUCH AS THE ANTHRONE AND MOLISCH TESTS; (3) THE APPLICATION OF LEVEL 1 PROCEDURES USING WATER-SOLUBLE MODEL COMPOUNDS; (4) THE EVALUATION OF GAS CHROMATOGRAPHY/FOURIER TRANSFORMATION INFRARED AS A VIABLE WAY TO ANALYZE HYDROPHILIC MATERIALS IN FRACTIONS OBTAINED FROM THE LEVEL 1 FRACTIONATION SCHEME; AND (5) AN ANALYTICAL WAY TO DETECT LINEAR ALKYLBENZENE SULFONATES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010827

PUBLICATION DATE: JAN 84

TITLE: AQUATIC PLANTS: ECOLOGY AND ENVIRONMENT. 1977-JANUARY, 1984 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *AQUATIC PLANTS; *BIBLIOGRAPHIES; *BIOLOGICAL INDICATORS; *ECOLOGY; *ENVIRONMENT; *INDUSTRIAL WASTES; *OIL SPILLS; *WASTEWATER; *WATER QUALITY

DESCRIPTIVE NOTE: 226P. PRICE CODE: PB N01/MF N01; PB84-857242

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING GROWTH OF, AND ECOLOGICAL AND ENVIRONMENTAL EFFECTS ON, BENTHIC FLORA IN LAKES, RIVERS, AND COASTAL AREAS. EFFECTS OF DOMESTIC SEWAGE, INDUSTRIAL WASTES, AND OIL SPILLS ON BENTHIC ECOSYSTEMS ARE DISCUSSED. BENTHIC ALGAE VEGETATION IN RIVER AND POLLUTED AREAS IS CONSIDERED, AND BENTHIC ALGAE AS BIOLOGICAL INDICATORS OF WATER QUALITY ARE ALSO DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 223 CITATIONS, 16 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010828

PUBLICATION DATE: DEC 83

TITLE: BIOLOGICAL WATER ANALYSIS. 1978-1983 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BACTERIA; *BIBLIOGRAPHIES; *HEAVY METALS; *LABORATORY PROCEDURES; *PARASITES; *VIRUSES; *WATER ANALYSIS

DESCRIPTIVE NOTE: 70P. PRICE CODE: PC N01/MF N01; PB84-856933

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE ANALYSIS OF WATER FOR BACTERIAL, VIRAL AND PARASITIC CONTENT, SUSPENDED PARTICULATE MATTER, HEAVY METALS AND OTHER POLLUTANTS. METHODS FOR THE BIOLOGICAL ANALYSIS OF WATER ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 74 CITATIONS, 11 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010829

PUBLICATION DATE: SEP 83

TITLE: ECONOMIC IMPACT ANALYSIS OF EFFLUENT LIMITATIONS GUIDELINES AND STANDARDS FOR THE ALUMINUM FORMING POINT SOURCE CATEGORY.

DESCRIPTOR: *ALUMINUM; *COSTS; *ECONOMICS; *EFFLUENT GUIDELINES; *GUIDELINES; *INDUSTRIAL WASTES; *METALS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 133P. PRICE CODE: PC A07/MF A01; PB84-139757

ABSTRACT: THE U. S. ENVIRONMENTAL PROTECTION AGENCY ISSUED EFFLUENT GUIDELINES AND LIMITATIONS FOR THE ALUMINIM FORMING POINT SOURCE CATEGORY IN SEPTEMBER, 1983. THIS REPORT ESTIMATES THE ECONOMIC IMPACT OF POLLUTION CONTROL COSTS IN TERMS OF PRICE CHANGES, PRODUCTION CHANGES, EFFECTS ON PROFITABILITY, POTENTIAL PLANT CLOSURES, UNEMPLOYMENT, AND OTHER SECONDARY EFFECTS. IMPACTS ON NEW ALUMINUM FORMING PLANTS ARE ALSO EXAMINED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010830

PUBLICATION DATE: JUN 83

TITLE: EFFECTIVENESS OF OZONE AS A MUNICIPAL WASTEWATER DISINFECTANT.

PERSONAL AUTHOR: VENOSA, A. D.

DESCRIPTOR: *DISINFECTANTS; *EFFLUENTS; *OZONE; *PERFORMANCE EVALUATION; *RESEARCH; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 23P. PRICE CODE: PC A02/MF A01; PB84-130517

ABSTRACT: THIS PAPER REVIEWED FACTORS INFLUENCING THE EFFECTIVENESS OF OZONE AS A WASTEWATER EFFLUENT DISINFECTANT. IN A BRIEF SELECTED REVIEW OF THE LITERATURE, IT WAS SHOWN THAT DEMAND OF THE EFFLUENT PLAYS AN IMPORTANT AND SOMETIMES NOT SO EASILY PREDICTED ROLE IN DEFINING THE DOSE REQUIREMENT TO ACHIEVE A GIVEN FECAL COLIFORM CRITERION. IMPORTANT FACTORS INCLUDE BOD, COD, AND NITRITE, WHILE LESS IMPORTANT ARE SUSPENDED SOLIDS. THE QUESTION OF RELIABILITY WAS ADDRESSED IN THIS PAPER BY POINTING OUT THAT CONTROL OF OZONE DISINFECTION CAN EASILY BE ACCOMPLISHED BY MONITORING JUST ONE PARAMETER, THE EXHAUST GAS OZONE CONCENTRATION. FINALLY, IF STRICTER STANDARDS ARE REQUIRED

TO BE ENFORCED, COMBINING OZONE WITH ULTRAVIOLET LIGHT IN SEQUENCE IS ECONOMICALLY MORE EFFECTIVE THAN EITHER UV LIGHT OR OZONE ALONE FOR TREATMENT PLANTS GREATER THAN 38,000 CU M/D (10.0 MGD).

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010831

PUBLICATION DATE: SEP 83

TITLE: EFFECTS OF WASTEWATER TREATMENT FACILITIES ON WETLANDS IN THE MIDWEST.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *BIBLIOGRAPHIES; *ECOLOGY; *FACILITIES; *MANAGEMENT; *WASTEWATER TREATMENT; *WETLANDS; *TECHNOLOGY

DESCRIPTIVE NOTE: 383P. PRICE CODE: PC A17/MF A01; PB84-127844

ABSTRACT: THE REPORT DESCRIBES ISSUES OF WASTEWATER AND WETLANDS IN MIDWEST STATES (MINNESOTA, WISCONSIN, MICHIGAN, ILLINOIS, INDIANA AND OHIO), SUMMARIZES THE EXISTING (INCLUDES A BIBLIOGRAPHY), INVENTORIES THE 98 EXISTING WETLAND DISCHARGES IN EPA REGION V AND IDENTIFIES POTENTIAL SITES AND TOPICS FOR ADDITIONAL STUDY. BOTH NATURAL AND CONSTRUCTED ('ARTIFICIAL') WETLANDS ARE CONSIDERED FOR ALTERNATIVE WASTEWATER TREATMENT TECHNOLOGY. KEY AREAS FOR FUTURE STUDY TO CONTRIBUTE TO A GENERIC ENVIRONMENTAL IMPACT STATEMENT INCLUDE: CONSTRUCTED WETLANDS, HYDROLOGIC IMPACTS, LONG-TERM ECOLOGICAL EFFECTS, LEGAL AND ADMINISTRATIVE CONSTRAINTS, MITIGATION OF IMPACTS, MANAGEMENT OF RECEIVING WETLANDS AND DISEASE AND HEALTH CONSIDERATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010832

PUBLICATION DATE: JAN 84

TITLE: GENERALIZATION OF WATER QUALITY CRITERIA USING CHEMICAL MODELS: DEVELOPMENT OF THE REDEQL-UMD SYSTEM OF COMPUTER PROGRAMS FOR AQUEOUS EQUILIBRIA. PART 1. USERS MANUAL.

PERSONAL AUTHOR: HARRISS, D. K.; AND OTHERS

DESCRIPTOR: *COMPUTER APPLICATIONS; *CHEMICAL MODELS; *COMPUTER PROGRAMS; *MANUALS; *METALS; *RESEARCH; *TOXICOLOGY; *WATER QUALITY

DESCRIPTIVE NOTE: 200P. PRICE CODE: PC A09/MF A01; PB84-135508

ABSTRACT: THIS RESEARCH PROGRAM HAD THE PRIMARY OBJECTIVE OF DEVELOPING SITE-SPECIFIC WATER QUALITY CRITERIA FOR METALS THROUGH CORRELATING AQUATIC TOXICITY WITH ACTIVITIES

OF METAL SPECIES. THE PROJECT WAS NOT INTENDED TO CARRY OUT EXPERIMENTAL STUDIES BUT TO MAKE USE OF EXISTING LITERATURE REPORTS OF METAL TOXICITY TO GENERATE THE CORRELATIONS. INHERENT IN THESE STUDIES WAS THE NEED FOR KNOWLEDGE OF THE NUMBER OF METAL SPECIES PRESENT, AND THE RELATIVE AMOUNTS OF EACH. TO MEET THESE NEEDS A SET OF COMPUTER PROGRAMS FOR FINDING EQUILIBRIUM CONCENTRATIONS OF METAL COMPLEXES REDEQL-UMD, WAS DEVELOPED, ALONG WITH A STABILITY CONSTANT DATA BASE AND ASSOCIATED REFERENCE-FOOTNOTE DATA BASES. LITERATURE VALUES OF STABILITY CONSTANT WERE ADJUSTED TO 25 C BY APPLICATION OF THERMODYNAMIC PRINCIPLES. ONCE SPECIATION AND TOXICITY DATA WERE AVAILABLE, A COMBINATION OF FACTOR ANALYSIS AND MULTIPLE REGRESSION ANALYSIS WAS USAD TO DEVELOP CORRELATIONS. A DETAILED EXAMPLE INVOLVING TOXICITY OF COPPER TO DAPHNIA MAGNA IS INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010833

PUBLICATION DATE: JAN 84

TITLE: GENERALIZATION OF WATER QUALITY CRITERIA USING CHEMICAL MODELS: DEVELOPMENT OF THE REDEQL-UMD SYSTEM OF COMPUTER PROGRAMS FOR AQUEOUS EQUILIBRIA. PART 2. PRORAMMERS MANUAL.

PERSONAL AUTHOR: HARRISS, D. K.; AND OTHERS

DESCRIPTOR: *COMPUTER APPLICATIONS; *MANUALS; *METALS; *PROGAMMER MANUALS; *RESEARCH; *TOXICOLOGY; *WATER QUALITY

DESCRIPTIVE NOTE: 233P. PRICE CODE: PC A11/MF A01; PB84-135516

ABSTRACT: THIS RESEARCH PROGRAM HAD THE PRIMARY OBJECTIVE OF DEVELOPING SITE-SPECIFIC WATER QUALITY CRITERIA FOR METALS THROUGH CORRELATING AQUATIC TOXICITY WITH ACTIVITIES OF METAL SPECIES. THE PROJECT WAS NOT INTENDED TO CARRY OUT EXPERIMENTAL STUDIES BUT TO MAKE USE OF EXISTING LITERATURE REPORTS OF METAL TOXICITY TO GENERATE THE CORRELATIONS. THIS PROGRAMMERS MANUAL CONSISTS OF THREE PARTS: (A) DEFINITIONS AND COMPUTATIONAL ALGORITHMS FOR REDEQL-UMD IN WHICH THE ALGORITHMS FOR ALL COMPUTATIONAL PROCESSES ARE DESCRIBED, WITH EXAMPLES USED WHEN THE PROCEDURE IS COMPLEX; (B) PARAMETER AND GLOBAL VARIABLES FOR REDEQL-UMD IN WHICH THE GLOBAL VARIABLES ARE DEFINED AS TO NATURE AND TYPE, AND NORMAL RANGES ARE GIVEN AS WELL AS THE NAMES OF SUBROUTINES IN WHICH THEY ARE USED AND THE KIND OF USE MADE OF THE VARIABLES IN THOSE SUBROUTINES; (C) FLOW DIAGRAMS FOR REDEQL-UMD IN WHICH FLOW DIAGRAMS FOR ALL SUBROUTINES ARE GIVEN IN CONSIDERABLE DETAIL AS WELL AS A GENERAL FLOW SHEET FOR THE PROGRAM. THE MANUAL WILL FIND GREATEST USE BY THOSE DESIRING TO MAKE MAJOR MODIFICATIONS TO REDEQL-UMD ALTHOUGH IT WOULD BE USEFUL TO A SERIOUS USER WISHING TO OBTAIN A MORE THOROUGH UNDERSTANDING OF THE SET OF PROGRAMS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010834

PUBLICATION DATE: 81

TITLE: GROUNDWATER USE MANAGEMENT IN THE NORTHEASTERN STATES: LEGAL AND INSTITUTIONAL ISSUES.

PERSONAL AUTHOR: RAYMOND, L. S., JR.

DESCRIPTOR: CONFERENCE PROCEEDINGS; *GROUNDWATER; *LEGAL ISSUES; *LEGISLATION; *INSTITUTIONAL ISSUES; *MANAGEMENT; *POLICY; *WATER RESOURCES

DESCRIPTIVE NOTE: 337P. PRICE CODE: PC A15/MF A01; PB84-132463

ABSTRACT: THE PURPOSES OF THE CONFERENCE WERE TO PROVIDE A FORUM FOR EXCHANGING INFORMATION ON LEGAL AND INSTITUTIONAL PROBLEMS INVOLVING GROUNDWATER SHORTAGES IN THE NORTHEASTERN STATES; AND TO IDENTIFY POLICY ISSUES WHICH COMMONLY EMERGE IN RELATION TO THE LEGAL AND INSTITUTIONAL ASPECTS OF GROUNDWATER MANAGEMENT. PUBLICATION OF A PROCEEDINGS WHICH COULD SERVE AS A REFERENCE DOCUMENT ON LEGAL AND INSTITUTIONAL CONCERNS IN GROUNDWATER MANAGEMENT IN THE NORTHEAST REPRESENTED A THIRD PURPOSE FOR THE CONFERENCE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010835

PUBLICATION DATE: JAN 84

TITLE: GUIDE TO THE SELECTION OF MATERIALS FOR MONITORING WELL CONSTRUCTION AND GROUND-WATER SAMPLING.

PERSONAL AUTHOR: BARCELONA, M. J.; AND OTHERS

DESCRIPTOR: *CONSTRUCTION; *COSTS; *DESIGN; *GROUNDWATER; *LITERATURE REVIEWS; *MONITORING; *SAMPLING; *WELLS

DESCRIPTIVE NOTE: 37P. PRICE CODE: PC A05/MF A01; PB84-141779

ABSTRACT: THE PROJECT WAS INITIATED TO SUPPLEMENT AND UPDATE EXISTING GUIDANCE DOCUMENTS FOR EFFECTIVE GROUND-WATER MONITORING EFFORTS. THE AREAS OF PRIMARY CONCERN WERE THE POTENTIAL SOURCES OF ERRORS IN CHEMICAL ANALYSES OF SUBSURFACE SAMPLES CAUSED BY WELL CONSTRUCTION AND SAMPLING MATERIALS, TECHNIQUES OR PROCEDURES. A CRITICAL REVIEW OF THE LITERATURE WAS CONDUCTED ON VARIOUS ASPECTS OF MONITORING NATURAL WATERS, MATERIALS' PERFORMANCE DATA AND UNPUBLISHED INFORMATION ON THE SUCCESS OF VARIOUS GROUND-WATER MONITORING TECHNIQUES. THE RESULTS OF THE LITERATURE REVIEW WERE COLLECTED AND REVIEWED BY A PANEL OF EXPERTS FROM GOVERNMENT AGENCIES, PRIVATE HYDROLOGICAL CONSULTING FIRMS, THE MANUFACTURING INDUSTRY AND NATIONAL STANDARDS ORGANIZATIONS. THE PUBLICATION CONSISTS OF A THOROUGH DISCUSSION OF GROUND-WATER MONITORING STRATEGIES, REQUIREMENTS AND PITFALLS. IT CONCLUDES WITH A DETAILED TREATMENT OF THE COSTS AND BENEFITS OF RECOMMENDED MONITORING DESIGN CRITERIA.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010836

PUBLICATION DATE: 83

TITLE: IMPLEMENTATION OF SEQUENCING BATCH REACTORS FOR MUNICIPAL TREATMENT.

PERSONAL AUTHOR: BARTH, E. F.

DESCRIPTOR: *BATCH REACTORS; *COSTS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 26P. PRICE CODE: PC A03/MF A01; PB84-130400

ABSTRACT: SEQUENCING BATCH REACTOR TECHNOLOGY IS BEING IMPLEMENTED AT VARIOUS MUNICIPAL SITES IN BOTH THE UNITED STATES AND ABROAD. TOTAL LIFE CYCLE COST SAVINGS, EASE OF OPERATION, AND RELIABILITY FAVOR THIS TECHNOLOGY AT FACILITIES SIZED UP TO 19,000 CU M PER DAY (5 MGD). BATCH TREATMENT HAS INHERENT ADVANTAGES OVER CONTINUOUS PROCESSES IN MANY APPLICATIONS. CURRENT RESEARCH INVESTIGATIONS ON SEQUENCING BATCH REACTORS CONCERN CONTROLLING SLUDGE SETTLEABILITY, NITRIFICATION, DENITRIFICATION, AND BIOLOGICAL PHOSPHORUS REMOVAL.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010837

PUBLICATION DATE: DEC 83

TITLE: ION EXCHANGE RESINS. JUNE, 1976-JANUARY, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *HEAVY METALS; *ION EXCHANGE RESINS; *RADIOACTIVE WASTES; *RESEARCH REPORTS; *WATER

DESCRIPTIVE NOTE: 236P. PRICE CODE: PC N01/MF N01; PB84-854207

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING ION EXCHANGE RESINS AND MATERIALS AND THEIR APPLICATIONS. RECOVERY, PURIFICATION, AND TREATMENT OF URANIUM, PLUTONIUM, THORIUM, AND OTHER HEAVY METALS; OF RADIOACTIVE WASTES; AND, OF WATER AND OTHER VARIOUS SUBSTANCES ARE DISCUSSED. UTILIZATION OF ION EXCHANGE RESINS IN NUCLEAR REACTORS AND POWER PLANTS AND IN CHEMICAL REACTIONS AND PROCEDURES ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 304 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010838

PUBLICATION DATE: DEC 83

TITLE: ION EXCHANGE RESINS. FEBRUARY, 1983-DECEMBER, 1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *HEAVY METALS; *ION EXCHANGE RESINS; *RADIOACTIVE WASTES; *RESEARCH REPORTS; *WATER

DESCRIPTIVE NOTE: 73P. PRICE CODE: PC N01/MF N01; PB84-354215

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING ION EXCHANGE RESINS AND MATERIALS AND THEIR APPLICATIONS. RECOVERY, PURIFICATION, AND TREATMENT OF URANIUM, PLUTONIUM, THORIUM, AND OTHER HEAVY METALS; OF RADIOACTIVE WASTES; AND, OF WATER AND OTHER VARIOUS SUBSTANCES ARE DISCUSSED. UTILIZATION OF ION EXCHANGE RESINS IN NUCLEAR REACTORS AND POWER PLANTS AND IN CHEMICAL REACTIONS AND PROCEDURES ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 70 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010839

PUBLICATION DATE: AUG 83

TITLE: LAND TREATMENT RESEARCH AND DEVELOPMENT PROGRAM, SYNTHESIS OF RESEARCH RESULTS.

PERSONAL AUTHOR: ISKANDAR I. K.; WRIGHT, E. A.

DESCRIPTOR: *COST-EFFECTIVENESS; *DESIGN; *ENVIRONMENTAL EFFECTS; *LAND TREATMENT; *MONITORING; *PLANNING; *RESEARCH; *TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 154P. PRICE CODE: PC A08/MF A01; AD-A134 540/4

ABSTRACT: THE MAJOR OBJECTIVE OF THE CORPS OF ENGINEERS LAND TREATMENT RESEARCH AND DEVELOPMENT PROGRAM WAS TO PROVIDE, THROUGH RESEARCH, DEFINITIVE CRITERIA AND PROCEDURES TO ENABLE THE COST-EFFECTIVE AND ENVIRONMENTALLY SAFE USE OF LAND TREATMENT OF MUNICIPAL WASTEWATER. THIS RESEARCH INCLUDED LONG-TERM FIELD EXPERIMENTS AT DIFFERENT LOCATIONS WITHIN THE UNITED STATES TO ESTABLISH DESIGN CRITERIA, LABORATORY RESEARCH TO UNDERSTAND AND SOLVE FUNDAMENTAL PROBLEMS, AND EVALUATION OF EXISTING LAND TREATMENT SYSTEMS TO DOCUMENT LONG-TERM PERFORMANCE. THE INFORMATION GATHERED FROM THE LAND TREATMENT RESEARCH PROGRAM HAS BEEN PUBLISHED IN MORE THAN 240 TECHNICAL PUBLICATIONS ON REGIONAL PLANNING, SITE SELECTION, DESIGN PROCEDURES, MECHANISMS OF WASTEWATER RENOVATION, SITE MANAGEMENT, SITE MONITORING AND ENVIRONMENTAL EFFECTS. DURING THE LAND TREATMENT PROGRAM, AN ACTIVE TECHNOLOGY TRANSFER EFFORT WAS MAINTAINED TO TRANSMIT RESEARCH RESULTS DIRECTLY TO USERS. THE LTRP CLEARLY DEMONSTRATED THAT LAND TREATMENT IS AN ATTRACTIVE ALTERNATIVE TO OTHER WASTE TREATMENT PRACTICES. IT WAS ALSO SHOWN THAT THE DIRECT BENEFITS OF THE PROGRAM, IN TERMS OF INCREASED COST-EFFECTIVENESS FROM IMPROVED DESIGN, WERE MUCH GREATER THAN THE PROGRAM'S COST.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010840

PUBLICATION DATE: JUN 83

TITLE: MANAGEMENT MODEL FOR DETERMINING ACCEPTABLE TYPES AND LEVELS OF RECREATION AT PUBLIC DRINKING WATER RESERVOIRS.

PERSONAL AUTHOR: KLAR, L. R.; AND OTHERS

DESCRIPTOR: *COSTS; *DRINKING WATER; *MANAGEMENT; *MANAGEMENT MODELS; *RECREATION; *RESEARCH REPORTS; *RESERVOIRS; *WATER QUALITY

DESCRIPTIVE NOTE: 260P. PRICE CODE: PC A12/MF A01; PB84-132448

ABSTRACT: A MANAGEMENT MODEL WAS DEVELOPED FOR DETERMINING OPTIMAL MIXES OF RECREATION ACTIVITIES AT PUBLIC DRINKING WATER RESERVOIRS. QUABBIN RESERVOIR, LOCATED IN CENTRAL MASSACHUSETTS, SERVED AS A CASE STUDY FOR THE MODEL. AN INTERDISCIPLINARY RESEARCH TEAM WAS FORMED TO STUDY (1) THE IMPACT OF SELECTED RECREATION ACTIVITIES ON WATER QUALITY, (2) PUBLIC DEMAND AND WILLINGNESS TO PAY FOR SELECTED RECREATION ACTIVITIES AT QUABBIN, (3) THE CARRYING CAPACITY POTENTIAL OF THE RESERVOIR AND (4) THE COST-BENEFITS ASSOCIATED WITH INCREASES IN RECREATION AT QUABBIN. ALL STUDY VARIABLES WERE INTEGRATED INTO A QUADRATIC PROGRAMMING MODEL PRODUCING OPTIMAL RECREATION ACTIVITY MIXES AS OUTPUTS. THE MODEL WAS SENSITIVE TO MANAGEMENT OBJECTIVES; RECOMMENDATIONS WERE LIMITED TO ACTIVITIES THAT WOULD NOT LOWER THE EXISTING HIGH QUALITY OF QUABBIN WATER.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010841

PUBLICATION DATE: MAY 83

TITLE: MORT USER'S MANUAL FOR USE WITH THE MANAGEMENT OVERSIGHT AND RISK TREE ANALYTICAL LOGIC DIAGRAM.

PERSONAL AUTHOR: KNOX, N. W.; EICHER, R. W.

DESCRIPTOR: *ACCIDENTS; *ANALYTICAL TECHNIQUES; *ACCIDENT PREVENTION; *MANAGEMENT; *MANUALS; *MORT; *OCCUPATIONAL SAFETY; *RISK; *SAFETY

DESCRIPTIVE NOTE: 71P. PRICE CODE: PC A04/MF A01; DE84000490

ABSTRACT: THIS REPORT IS THE USER'S MANUAL FOR MORT, A LOGIC DIAGRAM IN THE FORM OF A WORK SHEET THAT ILLUSTRATES A LONG SERIES OF INTERRELATED QUESTIONS. MORT IS A COMPREHENSIVE ANALYTICAL PROCEDURE THAT PROVIDES A DISCIPLINED METHOD FOR DETERMINING THE CAUSES AND CONTRIBUTING FACTORS OF MAJOR ACCIDENTS. ALTERNATIVELY, IT SERVES AS A TOOL TO EVALUATE THE QUALITY OF AN EXISTING SAFETY SYSTEM. WHILE SIMILAR IN MANY RESPECTS TO FAULT TREE ANALYSIS, MORT IS MORE GENERALIZED AND PRESENTS OVER 1500 SPECIFIC ELEMENTS OF AN IDEAL UNIVERSAL MANAGEMENT PROGRAM FOR OPTIMIZING OCCUPATIONAL SAFETY. (ERA CITATION 09:001361)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010842

PUBLICATION DATE: DEC 83

TITLE: OFFSHORE DRILLING: ENVIRONMENTAL EFFECTS. 1976-1983 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *ENVIRONMENTAL IMPACT; *OFFSHORE DRILLING; *REGULATIONS; *TECHNOLOGY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 255P. PRICE CODE: PC N01/MF N01; PB84-354132

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE IMPACTS OF OFFSHORE DRILLING ON THE ENVIRONMENT. POLLUTION CONTROL TECHNIQUES AND TECHNOLOGY ARE CONSIDERED PRIMARILY RELATIVE TO THEIR EFFICACY AND EFFICIENCY. SPECIFIC ENVIRONMENTAL IMPACT STATEMENTS, PERMIT APPLICATIONS, AND LEASE SALES ARE CITED AS ARE REGULATORY AND NON-REGULATORY REQUIREMENTS FOR DRILLING. (THIS UPDATED BIBLIOGRAPHY CONTAINS 319 CITATIONS, 34 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010843

PUBLICATION DATE: DEC 83

TITLE: OIL SPILL REMOVAL: DISPERSANTS, ABSORBANTS, BOOMS, AND SKIMMERS. 1978-1983 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *ENVIRONMENTAL IMPACT; *EQUIPMENT; *OIL SPILLS; *OIL SPILL REMOVAL; *TECHNOLOGY

DESCRIPTIVE NOTE: 95P. PRICE CODE: PC N01/MF N01; PB84-355162

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TECHNIQUES AVAILABLE FOR THE REMOVAL OF OIL FOLLOWING MAJOR SPILLS. CHEMICAL DISPERSANTS, GELLING AGENTS, FOAM PLASTICS, BOOMS, SKIMMERS, AND BURNING ARE DISCUSSED. SPECIFIC OIL SPILLS ARE CONSIDERED AND THE ENVIRONMENTAL IMPACTS OF OIL SPILLS ARE NOTED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 112 CITATIONS, 48 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010844

PUBLICATION DATE: APR 83

TITLE: OPTIMIZATION MODEL FOR LAND TREATMENT PLANNING, DESIGN AND OPERATION. PART 1. BACKGROUND AND LITERATURE REVIEW.

PERSONAL AUTHOR: BARON, JACLYN A.; AND OTHERS

DESCRIPTOR: *DESIGN; *LAND TREATMENT; *LITERATURE REVIEWS; *MODELS; *PLANNING; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 39P. PRICE CODE: PC A03/MF A01; AD-A134 554/5

ABSTRACT: THE MATERIAL PRESENTED IN PART 1 IS INTENDED TO PROVIDE INSIGHT INTO THE POSSIBLE LAND TREATMENT PLANNING OBJECTIVES, THE STATUS OF LAND TREATMENT RESEARCH AND IMPLEMENTATION, THE RENOVATIVE PROCESSES THAT OCCUR IN THE VARIOUS COMPONENTS OF THESE SYSTEMS, AND THE POTENTIAL FOR OPTIMIZING THE CONFIGURATION OF THESE COMPONENTS. THE STRUCTURE AND APPLICATION OF NINE MODELS, WHICH INCLUDE METHODS TO OPTIMIZE THE REGIONAL PLANNING, DESIGN AND OPERATION OF SLOW-RATE LAND TREATMENT SYSTEMS, ARE BRIEFLY DISCUSSED. GENERAL COMMENTS FOLLOW ON THE OVERALL STATUS OF RESEARCH IN LAND TREATMENT MODELING AND DIRECTIONS FOR FUTURE WORK.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010845

PUBLICATION DATE: APR 83

TITLE: OPTIMIZATION MODEL FOR LAND TREATMENT PLANNING, DESIGN AND OPERATION. PART 2. CASE STUDY.

PERSONAL AUTHOR: BARON, JACLYN A.; AND OTHERS

DESCRIPTOR: *CASE STUDIES; *DESIGN; *LAND TREATMENT; *PLANNING; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 38P. PRICE CODE: PC A03/MF A01; AD-A134 813/1

ABSTRACT: A PROCEDURE TO EVALUATE DESIGN AND OPERATING OPTIONS FOR SLOW-RATE LAND TREATMENT SYSTEMS IS DEMONSTRATED. THE NONLINEAR OPTIMIZATION MODEL LTMOD IS USED TO GENERATE OPTIMAL MONTHLY OPERATING REGIMES (EFFLUENT

APPLICATION PATTERNS) AND TO DEFINE OPTIMAL DESIGN CONFIGURATIONS (COMBINATIONS OF STORAGE CAPACITY AND IRRIGATION AREA). THE MODEL IS APPLIED TO A HYPOTHETICAL SLOW-RATE LAND TREATMENT SYSTEM IN A COOL, HUMID AREA WITH A FORAGE CROP, WHERE THE OPERATION AND DESIGN OF THE SYSTEM IS CONSTRAINED BY THE POTENTIAL FOR NITROGEN RENOVATION IN THE STORAGE FACILITY AND IN THE SOIL-CORP SYSTEM. THE COST PROPERTIES OVER THE RANGE OF OPTIMAL DESIGN ALTERNATIVES ARE EXAMINED TO DEDUCE SOME GENERAL COST CHARACTERISTICS OF SLOW-RATE SYSTEMS RANGING FROM 0.5 TO 10 MGD.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010846

PUBLICATION DATE: JAN 84

TITLE: POLYCHLORINATED BIPHENYLS IN THE FRESHWATER ENVIRONMENT. 1977-JANUARY, 1984 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *FRESHWATER; *ENVIRONMENTAL EFFECTS; *MONITORING; *PCBS; *POLYCHLORINATED BIPHENYLS; *RESEARCH REPORTS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 118P. PRICE CODE: PC N01/MF N01; PB84-857358

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE OCCURRENCE AND EFFECTS OF POLYCHLORINATED BIPHENYLS IN THE FRESHWATER ENVIRONMENT. TOPICS INCLUDE SOURCES, DISTRIBUTION, AND ACCUMULATION RATES FOR SPECIFIC REGIONS, BIOACCUMULATION, POLLUTANT PATHS AND INTRODUCTION INTO THE FOOD CHAIN, AND RESULTS OF LONG AND SHORT TERM MONITORING OF SELECTED AREAS. DETECTION METHODS FOR PCB ACCUMULATION IN FISH AND SURFICIAL SEDIMENTS ARE ALSO CONSIDERED. (CONTAINS 112 CITATIONS FULLY INDEXED AND INCLUDING A TITLE LIST.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010847

PUBLICATION DATE: AUG 83

TITLE: PROCEEDINGS FROM A WORKSHOP ON RESEARCH NEEDS RELATING TO SOIL ABSORPTION OF WASTEWATER.

PERSONAL AUTHOR: WARD, R. C.; MORRISON, S. M.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *MICROBIOLOGY; *ONSITE WASTEWATER TREATMENT; *PUBLIC HEALTH; *RESEARCH NEEDS; *SOIL; *SOIL ABSORPTION; *SOIL CHEMISTRY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 188P. PRICE CODE: PC A09/MF A01; PB84-133160

ABSTRACT: PAPERS DELIVERED AT THE CONFERENCE ARE PRESENTED IN THE REPORT. THEY ADDRESS RESEARCH NEEDS IN SOIL SCIENCE AND SOIL ABSORPTION OF WASTEWATER, SLUDGES AND INVERTEBRATES, HEALTH IMPLICATIONS OF BACTERIA AND PARASITES IN SOIL ABSORPTION OF WASTEWATER, AND SOIL CHEMISTRY ASPECTS OF ON-SITE WASTEWATER TREATMENT SYSTEMS. CRITIQUES OF VIROLOGY, MICROBIOLOGY, AND SOIL MACROORGANISM RESEARCH ARE INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010852

PUBLICATION DATE: DEC 83

TITLE: STRIP MINING: HYDROLOGY. 1977-1983 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *GROUNDWATER; *HYDROLOGY; *SITE REHABILITATION; *STRIP MINING; *SURFACE WATER; *WATER POLLUTION

DESCRIPTIVE NOTE: 223P. PRICE CODE: PC N01/MF N01; PB84-854199

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE HYDROLOGIC IMPACTS OF STRIP MINING. THE POTENTIAL IMPACTS OF STRIP MINING ON SURFACE AND GROUND WATER AND MEASURES TO MONITOR AND CONTROL WATER POLLUTION ARE DISCUSSED. SITE REHABILITATION IS ALSO CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 204 CITATIONS, 12 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010853

PUBLICATION DATE: JAN 84

TITLE: UTILIZATION OF MUNICIPAL WASTEWATER AND SLUDGE ON LAND, PROCEEDINGS OF THE 1983 WORKSHOP.

PERSONAL AUTHOR: PAGE, A. L.; AND OTHERS

DESCRIPTOR: *ECONOMICS; *EFFLUENTS; *LAND APPLICATION; *LAND TREATMENT; *MANAGEMENT; *PUBLIC HEALTH; *SLUDGE; *TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 461P. PRICE CODE: PC A20/MF A01; PB84-129030

ABSTRACT: A WORKSHOP ON UTILIZATION OF MUNICIPAL WASTEWATER AND SLUDGE ON LAND WAS HELD IN DENVER, COLORADO FROM FEBRUARY 23 THROUGH 25, 1983. RESEARCHERS AND PRACTITIONERS OF LAND TREATMENT, TOTALING 203 IN NUMBER AND FROM THE UNITED STATES AND OTHER COUNTRIES WERE, INVITED TO ATTEND AND EVALUATE ADVANCES IN THE LAND TREATMENT TECHNOLOGY DURING THE PAST DECADE. THE REPORTS OF THE CONFERENCE

INCLUDE POSITION PAPERS ON INSTITUTIONAL CONSTRAINTS, HYDROLOGIC AND NUTRIENT MANAGEMENT, PATHOGENS, METALS, ORGANICS, ENGINEERING AND ECONOMICS AND PUBLIC HEALTH ASPECTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010854

PUBLICATION DATE: DEC 83

TITLE: WASTE TREATMENT: BEVERAGE INDUSTRY. 1972-1983 (CITATIONS FROM THE FOOD SCIENCE AND TECHNOLOGY ABSTRACTS DATA BASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *BREWERIES; *BEVERAGE INDUSTRY; *EFFLUENTS; *INDUSTRIAL WASTES; *ECONOMICS; *WASTE DISPOSAL; *WASTE TREATMENT; *WINERIES

DESCRIPTIVE NOTE: 193P. PRICE CODE: PC N01/MF N01; PB84-854405

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TREATMENT OF EFFLUENTS FROM BEVERAGE INDUSTRY PROCESSES. PARTICULAR EMPHASIS IS ON BREWERY AND WINERY EFFLUENT TREATMENT. CHARACTERISTICS OF THE WASTE PRODUCTS AND PRE-TREATMENT AND TREATMENT METHODS ARE DISCUSSED. REGULATIONS GOVERNING WASTE DISPOSAL ARE ALSO CONSIDERED ALONG WITH THE ECONOMICS OF WASTE DISPOSAL. BOTH ALCOHOLIC AND SOFT DRINK BEVERAGES ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 312 CITATIONS, 25 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010856

PUBLICATION DATE: JUL 83

TITLE: WASTEWATER MANAGEMENT: TECHNICAL ALTERNATIVES AND REGULATORY OUTLOOK.

DESCRIPTOR: *CONFERENCE PROCEEDING; *CHEMICALS; ENZYMES; *ECONOMICS; *INDUSTRIAL WASTES; *IRRADIATION; *MANAGEMENT; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 24P. PRICE CODE: PC A02/MF A01; PB84-141373

ABSTRACT: THE FOLLOWING IS A COMBINED DISCUSSION AND REPORT OF THE MIT MARINE INDUSTRY COLLEGIUM WORKSHOP HELD AT MIT ON FEBRUARY 10, 1983. THE FIRST AREA DESCRIBED IN SOME DETAIL IN SECTION 2 CONCERNS THE USE OF ENZYMES FOR PRECIPITATING PHENOLS AND RELATED CHEMICALS FROM INDUSTRIAL WASTEWATER IN A NEW AND EFFICACIOUS MANNER. SECTION 3 DESCRIBES CONTINUED DEVELOPMENT IN THE ELECTRON IRRADIATION PROCESS FOR TREATING MUNICIPAL WASTEWATERS. FINALLY, SECTION 4 COMPLIMENTS THE TECHNICAL ALTERNATIVES TO WASTEWATER TREATMENT. CREATIVE FINANCING OF SEWERAGE TREATMENT PLANTS MIGHT ENCOURAGE PRIVATE AND PUBLIC INTERESTS TO JOIN FORCES IN MUTUALLY BENEFICIAL PARTNERSHIPS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010857

PUBLICATION DATE: DEC 83

TITLE: WATER POLLUTION: UPTAKE OF HEAVY METALS BY SHELLFISH AND MARINE PLANTS. 1974-1983 (CITATIONS FROM OCEANIC ABSTRACTS).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *HEAVY METALS; *MARINE PLANTS; *METALS; *OCEANOGRAPHY; *PLANTS; *SHELLFISH; *WATER POLLUTION

DESCRIPTIVE NOTE: 180P. PRICE CODE: PC N01/MF N01; PB84-854306

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HEAVY METAL CONTAMINATION OF SHELLFISH AND MARINE PLANTS. TOXICITY LEVELS AND THE LONG TERM EFFECTS ON THE ECOLOGY OF THE MARINE ENVIRONMENT ARE DISCUSSED. THE GROWTH RATE OF MARINE LIFE AS A FUNCTION OF METAL CONCENTRATION AND THE LONG TERM EFFECTS ON THE FOOD CHAIN ARE ALSO CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 248 CITATIONS, 11 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010858

PUBLICATION DATE: JAN 84

TITLE: WATER QUALITY: PATHOGENIC BACTERIA. 1977-JANUARY, 1984 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *BACTERIA; *MICROBIOLOGY; *PATHOGENIC BACTERIA; *PATHOGENS; *WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 211P. PRICE CODE: PC N01/MF N01; PB84-857812

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING WATER QUALITY, WASTEWATER TREATMENT AND THE PRESENCE, SURVIVAL, AND HAZARDS OF PATHOGENIC MICROORGANISMS. THE PROBABLE SOURCES AND FACTORS AFFECTING THE SURVIVAL OF THE BACTERIA ARE CONSIDERED. DETECTION METHODS AND PHYSICAL AND CHEMICAL TREATMENT METHODS ARE DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 205 CITATIONS, 17 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010859

PUBLICATION DATE: OCT 83

TITLE: ACTIVATED CARBON PROCESS FOR THE TREATMENT OF CADMIUM (II)-CONTAINING WASTEWATERS.

PERSONAL AUTHOR: HUANG, C. P.

DESCRIPTOR: *ACTIVATED CARBON; *CADMIUM; *INDUSTRIAL WASTES; *METALS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PB84-247155

ABSTRACT: THIS STUDY DEALS WITH THE REMOVAL OF CADMIUM (II) BY ACTIVATED CARBON ABSORPTION. RESULTS OF THE USE OF DIFFERENT TYPES OF COMMERCIAL ACTIVATED CARBON, EFFECTS OF EXPERIMENTAL VARIABLES, AND COSTS ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010860

PUBLICATION DATE: DEC 83

TITLE: ALTERNATE TREATMENT OF ORGANIC SOLVENTS AND SLUDGES FROM METAL FINISHING OPERATIONS--FINAL REPORT.

PERSONAL AUTHOR: CHENG, S. C.; AND OTHERS

DESCRIPTOR: *COSTS; *INDUSTRIAL WASTES; *METALS; *METAL FINISHING OPERATIONS; *ORGANIC COMPOUNDS; *SLUDGES; *SOLVENTS; *WASTE TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: PB84-102151

ABSTRACT: THE METAL FINISHING INDUSTRY USES SIGNIFICANT AMOUNTS OF ORGANIC MATERIALS IN ITS METAL WORKING PROCESSES, IN SOLVENT CLEANING, AND IN PRODUCT COATING PROCESSES. DATA ON THE QUANTITIES AND COMPOSITIONS OF THESE WASTES WERE COLLECTED FROM LITERATURE SOURCES, INDUSTRY SOURCES, AND STATE AND ENVIRONMENTAL AGENCY FILES. PROCESSES FOR HANDLING THESE WASTES WERE DESCRIBED AND RECOMMENDATIONS WERE MADE FOR FUTURE WORK TO PROMOTE THE SAFE DISPOSAL OF THESE ORGANIC RESIDUES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010864

PUBLICATION DATE: NOV 83

TITLE: CHARACTERIZATION AND TREATMENT OF AQUEOUS WASTES AND RESIDUE FROM PETROLEUM REFINERIES.

PERSONAL AUTHOR: BURKS, S. L.; WAGNER, J.

DESCRIPTOR: *INDUSTRIAL WASTES; *OIL; *OPERATIONS (WASTEWATER); *PETROLEUM WASTES; *OIL REFINERIES; *RESEARCH PROJECTS; *PERFORMANCE EVALUATION; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PB83-260281

ABSTRACT: THIS RESEARCH PROJECT WAS DESIGNED TO EVALUATE METHODS FOR INTENSIVELY TREATING HIGHLY CONCENTRATED LOW VOLUME STREAMS CONTAINING PETROLEUM REFINERY WASTES. MATERIALS REMOVED AND PROCEDURES USED ARE REPORTED. ADVANCED SYSTEMS COULD BE USED FOR TREATMENT, BUT THESE SYSTEMS WOULD NOT BE AS PRACTICAL OR ECONOMICALLY FEASIBLE AS BIOLOGICAL OXIDATION UNITS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010866

PUBLICATION DATE: SEP 83

TITLE: DEMONSTRATION OF SEWER RELINING BY THE INSITUFORM PROCESS, NORTHBROOK, ILLINOIS.

PERSONAL AUTHOR: DRIVER, F. T.; OLSON, M. R.

DESCRIPTOR: *COSTS; *INFILTRATION; *INSITUFORM; *MAINTENANCE; *OPERATIONS (WASTEWATER); *REHABILITATION; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: PB83-245878

ABSTRACT: A FULL SCALE STUDY WAS UNDERTAKEN OF THE INSITUFORM PROCESS FOR LINING SEWER PIPES TO SEAL LEAKS TO PREVENT INFILTRATION. THE STUDY WAS DONE IN NORTHBROOK, ILLINOIS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010867

PUBLICATION DATE: SEP 83

TITLE: DEVELOPMENT AND APPLICATION OF A WATER SUPPLY FINANCIAL REPORTING SYSTEM: VOLUMES I AND II.

PERSONAL AUTHOR: FENDER, VICTOR C.; AND OTHERS

DESCRIPTOR: *ADMINISTRATION; *COMPUTER APPLICATIONS;

*FINANCES; *FINANCIAL REPORTING SYSTEMS; *MANAGEMENT; *REPORTING; *WATER UTILITIES; *WATER SUPPLY

DESCRIPTIVE NOTE: PB83-249417 (VOLUME I); PB83-249425 (VOLUME II).

ABSTRACT: THIS TWO-VOLUME REPORT DESCRIBES THE DEVELOPMENT OF A COMPUTERIZED FINANCIAL REPORTING SYSTEM FOR A KENTON COUNTY IN KENTUCKY. THE OBJECTIVES OF THE REPORTING SYSTEM ARE TO (1) PROVIDE PROGRAMS THAT PRODUCE A GENERAL LEDGER ACCOUNTING SYSTEM AND FINANCIAL REPORTS AND (2) FUNCTION AS A MODULAR SYSTEM INDEPENDENTLY OR WITH A COST ANALYSIS SYSTEM. THIS REPORT DISCUSSES THE BACKGROUND CONDITIONS AND RESULTS OF THE PROJECT IN VOLUME I AND PROVIDES COMPLETE DOCUMENTATION IN VOLUME II.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010869

TITLE: THE FATE OF ORGANIC POLLUTANTS IN A WASTEWATER LAND TREATMENT SYSTEM USING LAGOON IMPOUNDMENT AND SPRAY IRRIGATION.

PERSONAL AUTHOR: DEMIRJIAN, Y. A.; AND OTHERS

DESCRIPTOR: *IRRIGATION; *LAGOONS; *LAND TREATMENT; *MICHIGAN; *OPERATIONS (WASTEWATER); *ORGANIC COMPOUNDS; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *RESEARCH; *WASTEWATER TREATMENT

ABSTRACT: THIS STUDY WAS CONDUCTED TO DETERMINE THE FATE OF ORGANIC POLLUTANTS IN A WASTEWATER LAND TREATMENT SYSTEM IN MUSKEGON COUNTY IN MICHIGAN. THE SYSTEM USED LAGOON IMPOUNDMENT AND SPRAY IRRIGATION. RESULTS OF THE STUDY ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010870

PUBLICATION DATE: NOV 83

TITLE: LAND TREATABILITY OF REFINERY AND PETROCHEMICAL SLUDGES.

PERSONAL AUTHOR: BROWN, K. W.; AND OTHERS

DESCRIPTOR: BIODEGRADATION; GROUNDWATER; *INDUSTRIAL WASTES; *LAND TREATMENT; MONITORING; PHYTOTOXICITY; *OIL; *PETROCHEMICALS; *PERFORMANCE EVALUATION; *RESEARCH; SLUDGE; *WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PB83-247148

ABSTRACT: THE LAND DISPOSAL OF THE API SEPARATOR SLUDGES WAS INVESTIGATED WITH REGARD TO DECOMPOSITION RATES OF ORGANIC CONSTITUENTS AND THE POSSIBLE IMPACT OF THESE MATERIALS ON PLANTS AND SURFACE WATER OR GROUNDWATER QUALITY. TWO OILY SLUDGES WERE STUDIED FOR THEIR PHYTOTOXICITY, BIODEGRADABILITY IN SOILS, WATER-SOLUBLE CONSTITUENTS AND FIELD MOBILITY. RESULTS OF THE STUDY ARE REPORTED AND INDICATED A NEED FOR CAREFUL MANAGEMENT OF LAND TREATMENT SITES TO AVOID GROUNDWATER CONTAMINATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010871

PUBLICATION DATE: SEP 83

TITLE: LAND TREATMENT FIELD STUDIES, VOLUMES 1-6.

PERSONAL AUTHOR: BERKOWITZ, JOAN; AND OTHERS

DESCRIPTOR: *FIELD STUDIES; *INDUSTRIAL WASTES; *LAND TREATMENT; *MANAGEMENT; *PERFORMANCE EVALUATION; *RESEARCH; *WASTE DISPOSAL; *WASTE CHARACTERISTICS

DESCRIPTIVE NOTE: PB83-241273 (VOLUME 1); PB83-241281 (VOLUME 2); PB83-241299 (VOLUME 3); PB83-241307 (VOLUME 4); PB83-241315 (VOLUME 5); AND PB83-241323 (VOLUME 6). PB83-241265 (VOLUMES 1-6)

ABSTRACT: A FIELD STUDY EXAMINED SIX LAND TREATMENT SITES RECEIVING INDUSTRIAL WASTES. EACH SITE RECEIVED ONE WASTE ONLY. RESULTS OF THE STUDY PROVIDE INSIGHT INTO THE FACTORS THAT SHOULD BE CONSIDERED WHEN PLANNING LAND TREATMENT FACILITIES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010873

PUBLICATION DATE: SEP 83

TITLE: MICROBIOLOGICAL ALTERATIONS IN DISTRIBUTED WATER TREATED WITH GRANULAR ACTIVATED CARBON.

PERSONAL AUTHOR: HAAS, CHARLES N.; AND OTHERS

DESCRIPTOR: *COLIFORMS; *GAS; *GRANULAR ACTIVATED CARBON; *ENDOTOXINS; *MICROORGANISMS; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PB83-247163

ABSTRACT: GRANULAR ACTIVATED CARBON (GAS) TREATMENT OF DRINKING WATER WAS INVESTIGATED TO DETERMINE ITS EFFECTS ON THE MICROBIOLOGICAL CHARACTERISTICS OF POTABLE WATER DISTRIBUTION SYSTEMS. RESULTS OF THE STUDIES IN TWO FULL-SCALE PLANTS AND A PILOT-SCALE PLANT ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010875

PUBLICATION DATE: NOV 83

TITLE: TEST PROCEDURE FOR URANIUM IN DRINKING WATER: INTERLABORATORY COLLABORATIVE STUDY.

PERSONAL AUTHOR: PHILLIPS, C. A.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *INTERLABORATORY STUDIES; *LABORATORY PROCEDURES; *PERFORMANCE EVALUATION; *TEST PROCEDURES; *URANIUM; *WATER QUALITY

DESCRIPTIVE NOTE: PB83-247239

ABSTRACT: AN INTERLABORATORY COLLABORATIVE STUDY WAS CONDUCTED FOR A TEST PROCEDURE TO MEASURE THE CONCENTRATION OF URANIUM IN DRINKING WATER. THE PURPOSE OF THE STUDY WAS TO ESTIMATE THE PRECISION AND ACCURACY FOR THE TEST PROCEDURE THAT CAN BE EXPECTED BY A COMPETENT LABORATORY. STATISTICAL RESULTS ARE REPORTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010876

PUBLICATION DATE: OCT 83

TITLE: WASTEWATER TREATMENT WITH PLANTS IN NUTRIENT FILMS.

PERSONAL AUTHOR: JEWELL, W. J.; AND OTHERS

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *ECONOMICS; *NUTRIENT FILM TECHNIQUE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PB83-247494

ABSTRACT: THE GOAL OF THIS STUDY WAS TO DETERMINE THE ECONOMIC, TECHNICAL, AND PRACTICAL FEASIBILITY OF USING PLANTS GROWN IN THE NUTRIENT FILM TECHNIQUE (NFT) SYSTEM AS POLLUTION CONTROL SYSTEMS. THE NFT WAS SHOWN TO BE A VIABLE ALTERNATIVE FOR DOMESTIC SEWAGE TREATMENT. VARIOUS ASPECTS OF THE STUDY WERE DISCUSSED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010877

PUBLICATION DATE: NOV 83

TITLE: WATER HYACINTH WASTEWATER TREATMENT SYSTEMS: OPPORTUNITIES AND CONSTRAINTS IN COOLER CLIMATES.

PERSONAL AUTHOR: LESLIE, MICHELE

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *AQUATIC PLANTS; *COSTS; *HYACINTHS; *OPERATIONS (WASTEWATER); *PLANTS; *REGULATIONS; *TECHNOLOGY; *WASTEWATER TREATMENT; *WATER HYACINTHS

DESCRIPTIVE NOTE: PB83-251223

ABSTRACT: THIS STUDY WAS CONDUCTED TO CONSIDER THE USE OF HIGHER PLANTS SUCH AS HYACINTHS FOR MUNICIPAL WASTEWATER TREATMENT IN COOLER CLIMATES. RESULTS OF THE STUDY INDICATE THERE ARE SEVERAL BARRIERS TO THE USE OF SUCH ORGANISMS ON A YEAR-ROUND BASIS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW010878

PUBLICATION DATE: MAR 84

TITLE: MONITOR: SECONDARY TREATMENT: REGULATORY REALITY.

PERSONAL AUTHOR: FLYNN, KEVIN C.

DESCRIPTOR: *COMPLIANCE; *ECONOMICS; *EFFLUENTS; *LEGISLATION; *POLICIES; *REGULATIONS; *SECONDARY TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 204-208P.

ABSTRACT: DISCUSSED ARE RECENT PROPOSED REGULATIONS REGARDING SECONDARY WASTEWATER TREATMENT. THE IMPACT OF THE PROPOSED REGULATIONS ARE CONSIDERED. MOST FINANCIAL SAVINGS WILL COME TO SMALL COMMUNITIES WITH POPULATIONS OF 10,000 OR LESS AND PLANTS DISCHARGING 1 MGD OR LESS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N3

IRIS ACCESSION NUMBER: EW010879

PUBLICATION DATE: MAR 84

TITLE: CHEMICAL REACTOR DESIGN THEORY AND BIOLOGICAL TREATMENT OF INDUSTRIAL WASTES--IS THERE A GAP?

PERSONAL AUTHOR: BUSCH, ARTHUR W.

DESCRIPTOR: *ACTIVATED SLUDGE; *BIOLOGICAL WASTEWATER TREATMENT; *DESIGN; *ENGINEERING; *FACILITIES; *INDUSTRIAL WASTES; *MODELS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 215-218P.

ABSTRACT: THERE IS A NEED TO RESTATE THE ENGINEERING ASPECTS OF ACTIVATED SLUDGE DESIGN IN TERMS OF EXPERIMENTALLY DERIVED RATE DATA. THIS PAPER ADDRESSES ISSUES ARISING FROM THE APPLICATION OF CHEMICAL REACTOR DESIGNS THEORY FOR FIRST ORDER REACTIONS TO AEROBIC BIOLOGICAL WASTEWATER TREATMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N3

IRIS ACCESSION NUMBER: EW010880

PUBLICATION DATE: MAR 84

TITLE: USE OF WATER HYACINTH AQUATIC TREATMENT SYSTEMS FOR AMMONIA CONTROL AND EFFLUENT POLISHING.

PERSONAL AUTHOR: HAUSER, JEFFREY R.

DESCRIPTOR: *AMMONIA; *AQUATIC TREATMENT; *CALIFORNIA; *HYACINTHS; *MANAGEMENT; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *WATER HYACINTHS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 219-225P.

ABSTRACT: TEST SYSTEMS REDUCED AMMONIA BY 10% IN NONAERATED PONDS, AND BY 99% IN PONDS WITH SUPPLEMENTAL AERATION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N3

IRIS ACCESSION NUMBER: EW010881

PUBLICATION DATE: MAR 84

TITLE: LAND APPLICATION ODOR STUDY.

PERSONAL AUTHOR: GERICK, J. A.

DESCRIPTOR: *INDUSTRIAL WASTES; *LAND APPLICATION; OPERATIONS (WASTEWATER); *ODOR CONTROL; *POTATO INDUSTRY; PERFORMANCE EVALUATION; *RESEARCH; *RECOMMENDATIONS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 287-291P.

ABSTRACT: A QUANTITATIVE UNDERSTANDING OF MECHANISMS OF ODOR PRODUCTION CAN LEAD TO PROCESS AND OPERATIONAL MODIFICATIONS THAT REDUCE ODOR DEVELOPMENT. THIS PAPER DESCRIBES THE USE OF ADVANCED LABORATORY TECHNIQUES TO QUANTIFY ODOR PRODUCTION. THE STUDY INVOLVED POTATO WASTES IN IDAHO.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V56 N3

IRIS ACCESSION NUMBER: EW010882

PUBLICATION DATE: APR 84

TITLE: HUMAN RESOURCES TEST THE SKILLS OF TODAY'S MANAGERS.

PERSONAL AUTHOR: GWINN, CHES

DESCRIPTOR: *COSTS; *HUMAN RESOURCES; *HUMAN RESOURCE DEVELOPMENT; *MANAGEMENT; *PERFORMANCE MANAGEMENT SYSTEMS; [illegible] *PERSONNEL; *PRODUCTIVITY; SALARIES

DESCRIPTIVE NOTE: 56-59P.

ABSTRACT: PUBLIC SECTOR GROUPS ARE BEGINNING TO EMULATE THE PRIVATE SECTOR IN MANAGING HUMAN RESOURCES. FACTORS FORCING ORGANIZATIONS TO PAY MORE ATTENTION TO PEOPLE MANAGEMENT ARE: (1) SCARCITY OF FINANCIAL RESOURCES, (2) DEMAND FOR MORE AND HIGHER QUALITY SERVICES, (3) COMPETITION FOR CAPABLE PERSONNEL, AND (4) CHANGES IN THE LABOR FORCE. THREE STRATEGIES FOR IMPROVED EMPLOYEE MOTIVATION ARE DESCRIBED.

AVAILABILITY: AMERICAN CITY & COUNTY; V99 N4

IRIS ACCESSION NUMBER: EW010883

PUBLICATION DATE: APR 84

TITLE: STUDIES ON HOME WATER TREATMENT SYSTEMS.

PERSONAL AUTHOR: BELL, FRANK A., JR.; AND OTHERS

DESCRIPTOR: *DRINKING WATER; *ENDOTOXINS; *HOME SYSTEMS; *MICROORGANISMS; *ONSITE TREATMENT; *ORGANIC COMPOUNDS; *PERFORMANCE EVALUATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 126-130P.

ABSTRACT: STATISTICAL INFORMATION ON OVER 30 COMMERCIALLY AVAILABLE HOME WATER TREATMENT SYSTEMS IS PRESENTED. INFORMATION INCLUDES DATA ON REMOVING VOLATILE ORGANIC CHEMICALS AND MICROBIOLOGICAL AND ENDOTOXIN CONCENTRATIONS FOUND IN THE FILTER EFFLUENTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N4

IRIS ACCESSION NUMBER: EW010884

PUBLICATION DATE: APR 84

TITLE: DEVELOPING JOINT WATER PROJECTS.

PERSONAL AUTHOR: HARDTEN, RONALD D.

DESCRIPTOR: *ECONOMICS; *JOINT PROJECT DEVELOPMENT; *OPERATIONS (WATER); *RURAL AREAS; *URBAN AREAS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 131-133P.

ABSTRACT: CORE CITIES AND SUBURBAN WATER AGENCIES FIND ECONOMY IN COOPERATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N4

IRIS ACCESSION NUMBER: EW010885
PUBLICATION DATE: APR 84

TITLE: BIOLOGICAL ACTIVATED CARBON--AT WHAT COST?

PERSONAL AUTHOR: NEUKRUG, HOWARD M.; AND OTHERS

DESCRIPTOR: *COSTS; *GRANULAR ACTIVATED CARBON; *ODORS; *OPERATIONS (WATER); *OZONE; *ORGANIC COMPOUNDS; *PERFORMANCE EVALUATION; *TASTES; *WATER TREATMENT

DESCRIPTIVE NOTE: 158-167P.

ABSTRACT: THIS ARTICLE EXAMINES THE TECHNICAL AND ECONOMIC FEASIBILITY OF INCORPORATING OZONE, GAC, OR OZONE-GAC UNIT PROCESSES INTO A CONVENTIONAL WATER TREATMENT TRAIN TO REMOVE TRACE ORGANIC COMPOUNDS, TO REDUCE TOTAL ORGANIC CARBON, AND TO CONTROL UNPLEASANT TASTES AND ODORS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N4

IRIS ACCESSION NUMBER: EW010886

PUBLICATION DATE: APR 84

TITLE: LINE CLEANING: AN ECONOMICAL ALTERNATIVE FOR RECAPTURING CAPACITY.

DESCRIPTOR: *MAINTENANCE; *PIPES; *WATER DISTRIBUTION; *WATER PIPES; *WATER SUPPLY

DESCRIPTIVE NOTE: 173-179P.

ABSTRACT: DESCRIBED IS LINE CLEANING OF WATER SUPPLY MAINS TO INCREASE FLOW AND PRESSURE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V76 N4

IRIS ACCESSION NUMBER: EW010887

PUBLICATION DATE: APR 84

TITLE: COLORIMETRIC DETERMINATION OF OZONE IN WATER BASED ON REACTION WITH BIS (TERPYRIDINE) IRON (II).

PERSONAL AUTHOR: TOMIYASU, HIROSHI; GORDON, GILBERT

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DISINFECTION; *LABORATORY PROCEDURES; *OZONE

DESCRIPTIVE NOTE: 752-754P.

ABSTRACT: THE ANALYSIS OF AQUEOUS OZONE WAS STUDIED BY A COLORIMETRIC METHOD THAT USES THE REACTION BETWEEN OZONE AND BIS (TERPYRIDINE) IRON (II) IN DILUTE HYDROCHLORIC ACID SOLUTION. DIRECT COMPARISONS WITH THE INDIGO METHOD AND UV SPECTROPHOTOMETRIC MEASUREMENTS ARE PRESENTED.

AVAILABILITY: ANALYTICAL CHEMISTRY; V56 N4

IRIS ACCESSION NUMBER: EW010888

PUBLICATION DATE: APR 84

TITLE: KINETICS OF THE COMPLEXATION OF IRON (II) WITH FERROZINE.

PERSONAL AUTHOR: THOMPSEN, JAMES C.; MOTTOLA, HORACIO A.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL REACTIONS; *FERROZINE; *IRON; *LABORATORY PROCEDURES

DESCRIPTIVE NOTE: 755-757P.

ABSTRACT: THE KINETICS OF IRON (II) COMPLEXATION BY FERROZINE HAS BEEN STUDIED BY APPLYING STOPPED FLOW MIXING AND PHOTOMETRIC MONITORING AT 562 MM. A MECHANISM IS PROPOSED TO SATISFY THE EXPERIMENTAL OBSERVATIONS AND RATE EQUATION.

AVAILABILITY: ANALYTICAL CHEMISTRY; V56 N4

IRIS ACCESSION NUMBER: EW010889

PUBLICATION DATE: APR 84

TITLE: DETERMINATION OF RADIUM IN WATER BY LIQUID SCINTILLATION COUNTING AFTER PRECONCENTRATION WITH ION-EXCHANGE RESIN.

PERSONAL AUTHOR: HIGUCHI, HIDEO; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY TECHNIQUES; *LIQUID SCINTILLATION COUNTING; *RADIUM; *WATER QUALITY

DESCRIPTIVE NOTE: 761-763P.

ABSTRACT: A METHOD FOR THE DETERMINATION OF RADIUM IN ENVIRONMENTAL WATER BY MEANS OF A LIQUID SCIENTILLATION COUNTING TECHNIQUE HAS BEEN DEVELOPED.

AVAILABILITY: ANALYTICAL CHEMISTRY; V56 N4

IRIS ACCESSION NUMBER: EW010891

PUBLICATION DATE: APR 84

TITLE: THE ROLE OF WATER AUDITS IN WATER CONSERVATION.

PERSONAL AUTHOR: GAGNON, GARY A.

DESCRIPTOR: *CASE HISTORIES; *CONSERVATION; *MANAGEMENT; *OPERATIONS (WATER); *WATER AUDITS; *WATER DISTRIBUTION; *WATER CONSERVATION

DESCRIPTIVE NOTE: 129-140P.

ABSTRACT: SIGNIFICANT LEVELS OF WATER CONSERVATION CAN BE ACHIEVED THROUGH CONTROL OF LEAKAGE FROM A WATER DISTRIBUTION SYSTEM. A COMPLETE WATER AUDIT GENERALLY CONSIST OF THREE PHASES. HOWEVER, AN AUDIT IS USUALLY VARIED TO MEET INDIVIDUAL COMMITTEE NEEDS. SIX CASE HISTORIES ARE PRESENTED.

AVAILABILITY: JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT; V110 N2

IRIS ACCESSION NUMBER: EW010892

PUBLICATION DATE: APR 84

TITLE: MANAGING A PUBLIC INVOLVEMENT PROGRAM.

PERSONAL AUTHOR: ASTRACK, RICHARD F.; AND OTHERS

DESCRIPTOR: *FLOOD CONTROL; *ILLINOIS; *MANAGEMENT; *PLANNING; *PUBLIC PARTICIPATION; *SURVEYS; *WATER RESOURCES

DESCRIPTIVE NOTE: 153-166P.

ABSTRACT: DEVELOPING A PUBLIC INVOLVEMENT PROGRAM AND DETERMINING WHAT PROCEDURES AND METHODS ARE EFFECTIVE IN WATER RESOURCES PLANNING ARE DESCRIBED. DISCUSSED ARE EXPERIENCES FROM THE DEVELOPMENT AND MANAGEMENT OF A U. S. ARMY CORPS OF ENGINEERS PUBLIC INVOLVEMENT PROGRAM AS PART OF A FLOOD CONTROL PROJECT.

AVAILABILITY: JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT; V110 N2

IRIS ACCESSION NUMBER: EW010893

PUBLICATION DATE: APR 84

TITLE: WATER USE AND PUBLIC POLICY IN FLORIDA.

PERSONAL AUTHOR: DZURIK, ANDREW A.

DESCRIPTOR: *FLORIDA; *LEGISLATION; *MANAGEMENT; *PLANNING; *POLICIES; *POPULATION GROWTH; *URBAN AREAS; *WATER USE; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 167-179P.

ABSTRACT: THE INTERRELATIONS OF WATER USE, POPULATION GROWTH, AND URBANIZATION IN THE STATE OF FLORIDA ARE EXAMINED. WATER SUPPLY POLICY IS BEING WELL SERVED BY THE STATE'S WATER MANAGEMENT DISTRICTS, BUT ADDITIONAL EFFORTS MUST BE PLACED ON PLANNING FOR MUNICIPAL WATER SHORTAGES.

AVAILABILITY: JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT; V110 N2

IRIS ACCESSION NUMBER: EW010894

PUBLICATION DATE: APR 84

TITLE: CONSTRAINTS TO MANAGING INTERSTATE AQUIFER.

PERSONAL AUTHOR: NOONAN, DAVID C.; AND OTHERS

DESCRIPTOR: *DELAWARE RIVER BASIN; *GROUNDWATER; *CONTAMINATION; *INTERSTATE SYSTEMS; *MANAGEMENT; *POLICIES; *RECOMMENDATIONS; *WATER RESOURCES

DESCRIPTIVE NOTE: 191-205P.

ABSTRACT: THE LEGAL, INSTITUTIONAL, AND TECHNICAL CONSTRAINTS OF MANAGING A GROUNDWATER SYSTEM THAT FLOWS ACROSS INTERSTATE BOUNDARIES (THE DELAWARE RIVER BASIN) IS DESCRIBED.

AVAILABILITY: JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT; V110 N2

IRIS ACCESSION NUMBER: EW010895

PUBLICATION DATE: APR 84

TITLE: WATER CONSERVATION AND CAPACITY EXPANSION.

PERSONAL AUTHOR: RUBINSTEIN, JACOBO; ORTOLANO, LEONARD

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CALIFORNIA; CASE STUDIES; CONSERVATION; *ECONOMICS; *MANAGEMENT; *PLANNING; *WATER DEMAND; *WATER CONSERVATION; WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 220-237P.

ABSTRACT: A FRAMEWORK IS PRESENTED THAT ALLOWS PLANNERS OF WATER SUPPLY SYSTEMS TO MAKE EFFICIENT USE OF WATER RESOURCES BY EXPLICITLY CONSIDERING THE MANAGEMENT OF THE DEMAND FOR WATER AS A SUPPLEMENT TO TRADITIONAL SUPPLY AUGMENTATION PROJECTS. THE FRAMEWORK IS APPLIED TO A CASE STUDY IN CALIFORNIA.

AVAILABILITY: JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT; V110 N2

IRIS ACCESSION NUMBER: EW010896

PUBLICATION DATE: APR 84

TITLE: SMOKE TESTING.

PERSONAL AUTHOR: GERARDI, MICHAEL H.

DESCRIPTOR: *EQUIPMENT; *INFILTRATION; *INFLOW; *MAINTENANCE; *PREVENTIVE MAINTENANCE; *SEWERS; *SEWER SYSTEMS; *SMOKE TESTING; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 56-67P.

ABSTRACT: SMOKE TESTING IS A VALUABLE TOOL FOR TROUBLESHOOTING AS WELL AS ROUTINE MAINTENANCE OF SANITARY SEWER SYSTEMS. TECHNIQUES OF ITS USE ARE DISCUSSED.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010897

PUBLICATION DATE: APR 84

TITLE: MOBILIZING FOR COMBINED SEWER OVERFLOW MONITORING.

PERSONAL AUTHOR: GRAHAM, MALISE J.; AND OTHERS

DESCRIPTOR: *MICHIGAN; *MONITORING; *OPERATIONS (WASTEWATER); *PLANNING; *SEWERS; *SEWER OVERFLOW; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 58-61P.

ABSTRACT: MOBILIZING A MONITORING SYSTEM FOR A LARGE URBAN AREA REQUIRES A LARGE STAFF DURING STORM EVENTS. THE LOGISTICS OF SUCH A PROJECT IN DETROIT, MICHIGAN ARE DISCUSSED.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010898

PUBLICATION DATE: APR 84

TITLE: ODOR CONTROL AT WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: FANCHANN, STEVEN A.

DESCRIPTOR: *HYDROGEN PEROXIDE; *HYDROGEN SULFIDE; *NEW YORK; *ODORS; *ODOR CONTROL; *OPERATIONS (WASTEWATER); *SLUDGE TREATMENT; *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 112-113P.

ABSTRACT: ODOR CONTROL AT A PLANT IN NEW YORK WAS CRITICAL DUE TO PROXIMITY TO RESIDENTIAL AREAS. DESCRIBED IS A STUDY OF THE PROBLEM AND CORRECTIVE ACTIONS TAKEN.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010900

PUBLICATION DATE: APR 84

TITLE: NEW REHABILITATION PROCESS FOR LARGE CONCRETE WATER PIPE.

DESCRIPTOR: *CALIFORNIA; *CONCRETE WATER PIPES; *MAINTENANCE; *PIPES; *REHABILITATION; *WATER DISTRIBUTION; *WATER PIPES

DESCRIPTIVE NOTE: 80-82P.

ABSTRACT: DESCRIBED IS A REHABILITATION PROCESS USING STEEL LINING SECTIONS TO REHABILITATE DETERIORATED CONCRETE PRESSURE PIPES. THE PROCEDURE WAS USED IN CALIFORNIA.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010901

PUBLICATION DATE: APR 84

TITLE: COMPUTERIZED MONITORING OF A WATER AND SEWER SYSTEM.

PERSONAL AUTHOR: GOODMAN, ALLEN L.; LANCASTER, LEON P.

DESCRIPTOR: *COMPUTER APPLICATIONS; *FACILITIES; LIFT STATIONS; *MICROCOMPUTERS; *MONITORING; TANKS; *WASTEWATER SYSTEMS; *WATER SYSTEMS; WATER TANKS; WELLS

DESCRIPTIVE NOTE: 84P.

ABSTRACT: DESCRIBED IS A TELEMETERING SYSTEM FOR MONITORING WELLS, LIFT STATIONS, AND STORAGE TANKS. THE SYSTEM MONITORS OPERATIONS, PROVIDES INFORMATION FOR PREVENTIVE MAINTENANCE, AND IMPROVES EFFICIENCY.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010902

PUBLICATION DATE: APR 84

TITLE: ENERGY EFFICIENCY AT A WASTEWATER TREATMENT PLANT.

DESCRIPTOR: *CALIFORNIA; *COGENERATION; *ENERGY; *ENERGY EFFICIENCY; *ELECTRIC POWER GENERATION; *METHANE; *RECYCLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 85P.

ABSTRACT: DESCRIBED IS A GENERATOR FOR A WASTEWATER TREATMENT PLANT WHICH RUNS ON METHANE, AND PRODUCES EXCESS POWER WHICH IS SOLD. THE METHANE IS GENERATED FROM THE DIGESTER SYSTEM IN THE WASTEWATER TREATMENT PLANT.

AVAILABILITY: PUBLIC WORKS; V115 N4

IRIS ACCESSION NUMBER: EW010903

PUBLICATION DATE: APR 84

TITLE: WHERE LEARNING HAPPENS.

PERSONAL AUTHOR: FINKEL, COLEMAN

DESCRIPTOR: *DESIGN; *FACILITIES; *INSTRUCTION; *LEARNING; *LEARNING ENVIRONMENT

DESCRIPTIVE NOTE: 32-36P.

ABSTRACT: SUCCESSFUL LEARNING TAKES PLACE IN AN ENVIRONMENT THAT SUPPORTS THE PHYSICAL, INTELLECTUAL, AND PSYCHOLOGICAL NEEDS OF LEARNERS AND INSTRUCTORS. DESCRIBED ARE VARIOUS TYPES OF LEARNING ENVIRONMENTS AND THE DESIGN OF LEARNING FACILITIES.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V38 N4

IRIS ACCESSION NUMBER: EW010904

PUBLICATION DATE: APR 84

TITLE: ACCENTUATE THE POSITIVE, ELIMINATE THE NEGATIVE.

PERSONAL AUTHOR: SCHLEGER, PETER R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTION; *ORGANIZATION; *PLANNING; *PRESENTATIONS

DESCRIPTIVE NOTE: 97-101P.

ABSTRACT: IN THIS ARTICLE AN EXPERIENCED PRESENTER AND MEDIA CONSULTANT TELLS HOW TO PUT TOGETHER A MEMORABLE PRESENTATION, INCLUDING SPECIAL TIPS ON THE USE OF AUDIO-VISUALS.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V38 N4

IRIS ACCESSION NUMBER: EW010905

PUBLICATION DATE: APR 84

TITLE: LEARNING ABOUT LINING.

PERSONAL AUTHOR: KOLSTAD, MARK S.; SPEICHER, BRIAN L.

DESCRIPTOR: *CONCRETE PIPE; *COSTS; *CUSTOMER COMPLAINTS; *MAINTENANCE; *NEW MEXICO; *PIPES; *PIPE LINING; *REHABILITATION; *SLIP-LINING; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 25-27P.

ABSTRACT: THERE WERE TRICKS TO BE LEARNED DURING ALBUQUERQUE'S ONGOING PIPE LINING PROJECT TO REHABILITATE THE WASTEWATER COLLECTION SYSTEM. THE EFFORT HAS LED TO LOWER COSTS AND FEWER CUSTOMER COMPLAINTS.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010906

PUBLICATION DATE: APR 84

TITLE: INFILTRATION CUT DRAMATICALLY AFTER PIPE REPAIRS.

PERSONAL AUTHOR: HANNINGAN, PAUL F.

DESCRIPTOR: *INFILTRATION; *INFLOW; *INSITUFORM; *INTERCEPTORS; *MAINTENANCE; *MASSACHUSETTS; *PERFORMANCE EVALUATION; *REHABILITATION; SEWERS; *SEWER REPAIRS; WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 27-28P.

ABSTRACT: REPAIR OF A NEW ENGLAND INTERCEPTOR RESULTED IN A SUBSTANTIAL REDUCTION OF WASTEWATER PLANT INFLOW. AS A RESULT, NEW SEWER TIE-INS WERE AGAIN ALLOWED.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010907

PUBLICATION DATE: APR 84

TITLE: DESIGNING FOR REMOVAL OF SANITARY SEWER CROSS CONNECTIONS.

PERSONAL AUTHOR: HOLLENBECK, ALAN J.

DESCRIPTOR: *CROSS CONNECTIONS; *INDIRECT CROSS CONNECTIONS; *INFILTRATION; *INFLOW; *REHABILITATION; *SEWERS; *STORM SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 29-31P.

ABSTRACT: DESCRIBED IS A STEP-BY-STEP PROCEDURE TO ELIMINATE INDIRECT CROSS CONNECTIONS THAT EXIST BETWEEN STORM AND SANITARY SEWER SYSTEMS.
AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010908

PUBLICATION DATE: APR 84

TITLE: CLEANING CONTRACT LOWERS COSTS AND COMPLAINTS

PERSONAL AUTHOR: BLOMGREN, CARL T.

DESCRIPTOR: *CLEANING; *CONTRACT SERVICES; *COSTS; *CUSTOMER COMPLAINTS; *ILLINOIS; *MAINTENANCE; *PREVENTIVE MAINTENANCE; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 32-33P.

ABSTRACT: DESCRIBED IS A CONTRACT SERVICE APPROACH THAT HAS PROVED TO BE BENEFICIAL TO AN ILLINOIS SANITARY DISTRICT IN THE UPKEEP OF ITS WASTEWATER COLLECTION FACILITIES. THE CLEANING SERVICE HAS LOWERED COSTS AND COMPLAINTS.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010909

PUBLICATION DATE: APR 84

TITLE: BOD RESULTS THAT ARE BELIEVEABLE.

PERSONAL AUTHOR: STOVER, ENOS L.; MCCARTNEY, DAVID E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BOD; *EVALUATION; *LABORATORY PROCEDURES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 37-40, 62, 66P.

ABSTRACT: ACCURACY IN THE RESULTS FROM THE MUCH USED BOD WASTEWATER TEST DEMANDS CONSISTENT LABORATORY TECHNIQUE AND A SOUND UNDERSTANDING OF THE BIOLOGICAL GROWTH MECHANISMS INVOLVED.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010910

PUBLICATION DATE: APR 84

TITLE: REMOTE METER READING PAYS FOR ITSELF.

PERSONAL AUTHOR: TEGGATA, CHARLES O.; OLESEN, MICHAEL C.

DESCRIPTOR: *COSTS; *EQUIPMENT; *OPERATIONS (WATER); *REMOTE REGISTERS; *REMOTE METERS; *WATER METERS

DESCRIPTIVE NOTE: 42-43P.

ABSTRACT: THE REMOTE REGISTER APPROACH TO METER READING ASSURED RAPID PAYBACK OF THE INVESTMENT, SO THIS WISCONSIN COMMUNITY DECIDED TO TAKE ADVANTAGE OF IT.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010911

PUBLICATION DATE: APR 84

TITLE: A PROCESS FOR EACH SEASON.

PERSONAL AUTHOR: KUCHENRITHER, R. D.; AND OTHERS

DESCRIPTOR: *COLORADO; *FACILITIES; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *SEASONAL EFFECTS; *WATER

DESCRIPTIVE NOTE: 44-48P.

ABSTRACT: PILOT TESTS SPANNING 74 MONTHS WERE NEEDED TO FIRM UP THE BEST PROCESS TO BE USED DURING EACH OF THE THREE SEASONS THAT A COLORADO WATER PLANT EXPERIENCES EVERY YEAR.

AVAILABILITY: WATER ENGINEERING 8 MANAGEMENT; V131 N4

IRIS ACCESSION NUMBER: EW010924

PUBLICATION DATE: 83

TITLE: TECHNOLOGIES AND MANAGEMENT STRATEGIES FOR HAZARDOUS WASTE CONTROL.

DESCRIPTOR: *FEDERAL PROGRAMS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *MANAGEMENT; *RECOMMENDATIONS; *TECHNOLOGY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 425P. PRICE: $8.50

ABSTRACT: PRESENTED IS AN ANALYSIS OF THE FEDERAL PROGRAM FOR THE MANAGEMENT OF NONNUCLEAR INDUSTRIAL HAZARDOUS WASTE, WITH RECOMMENDATIONS FOR IMPROVING THE EFFICIENCY AND EFFECTIVENESS OF THE PROGRAM.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, US GOVERNMENT PRINTING OFFICE, DEPT. 33, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW010926

PUBLICATION DATE: 83

TITLE: GUIDELINES FOR DEVELOPING A WASTEWATER SAFETY PROGRAM.

DESCRIPTOR: *EMPLOYEE PARTICIPATION; *GUIDELINES; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PLANNING; *RECOMMENDATIONS; *SAFETY; *SAFETY PROGRAMS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 56P. PRICE: $9.00 MEMBERS; $12.00 NON-MEMBERS; ORDER NO. MOP SM-2

ABSTRACT: THIS MANUAL COVERS THE PROCEDURES AND STEPS TO TAKE IN ESTABLISHING A SAFETY PROGRAM, AND WHAT ELEMENTS SHOULD BE IN SUCH A PROGRAM. IT EMPHASIZES THE IMPORTANCE OF MANAGEMENT AND EMPLOYEE PARTICIPATION IN A SAFETY PROGRAM. STRESS IS NOT PLACED ON SAFETY DOS AND DON'TS BUT RATHER ON CONDUCTING AN OVERALL POLICY OF SAFETY PRACTICES.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVENUE, N. W., WASHINGTON, DC 20037

IRIS ACCESSION NUMBER: EW010927

PUBLICATION DATE: 83

TITLE: SLUDGE DEWATERING.

DESCRIPTOR: *DESIGN; *DEWATERING; *FILTRATION; *INSTRUCTIONAL MATERIALS; *LAND APPLICATION; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *SLUDGE; *TECHNOLOGY; *WASTEWATER TREATMENT; *VACUUM FILTRATION

DESCRIPTIVE NOTE: 175P. PRICE: $19.50 MEMBERS; $26.00 NON-MEMBERS; ORDER NO. M0016

ABSTRACT: THE 1983 EDITION OF THIS POPULAR TITLE PRESENTS UPDATED SECTIONS ON LAND, VACUUM FILTRATION, AND CENTRIFUGATION METHODS. MAJOR SECTIONS COVER THE TECHNOLOGIES LIKE BELT FILTER PRESSES AND RECESSED PLATE PRESSURE FILTERS. WRITTEN PRIMARILY FROM A DESIGN STANDPOINT, SLUDGE DEWATERING ALSO CONSIDERS METHODS FOR INTEGRATING THE DEWATERING PROCESS INTO THE OVERALL TREATMENT SCHEME. FACTORS TAKEN INTO ACCOUNT INCLUDE PHYSICAL AND CHEMICAL CONSTITUENTS OF WASTEWATER; LOCAL, STATE, AND FEDERAL REGULATIONS; AND RECYCLE STREAMS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVENUE, N. W., WASHINGTON, DC 20037

IRIS ACCESSION NUMBER: EW010929

PUBLICATION DATE: 83

TITLE: WATER RATES: AN EQUITABILITY CHALLENGE.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *RATES; *WATER RATES; *WATER UTILITIES; *WATER SUPPLY

DESCRIPTIVE NOTE: 164P. PRICE: $11.05 MEMBERS; $13.80 NONMEMBERS

ABSTRACT: MORE THAN A DOZEN ARTICLES ON VARIOUS WATER RATE ISSUES ARE INCLUDED IN THIS AWWA ANNUAL CONFERENCE SEMINAR PROCEEDINGS. TOPICS DISCUSSED IN THIS BOOK INCLUDE: (1) SETTING EQUITABLE RATES FOR SUBURBAN CUSTOMERS; (2) DISTRIBUTING COSTS OF SERVICE TO CUSTOMER CLASSES; (3) CALCULATING REVENUE REQUIREMENTS; (4) THE RATE SETTING PROCESS; (5) SINGLE TARRIF PRICING; (6) INVERTED RATE AND CONSERVATION PRICING; (7) LIFELINE AND SOCIAL POLICY PRICING; AND (8) SEASONAL AND TIME OF DAY PRICING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, DATA PROCESSING DEPARTMENT, 6666 W. QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW010930

PUBLICATION DATE: 83

TITLE: USE OF ORGANIC POLYELECTROLYTES IN WATER TREATMENT.

DESCRIPTOR: *COAGULATION; *CONFERENCE PROCEEDINGS; *ORGANIC POLYELECTROLYTES; *OPERATIONS (WATER); *POLYMERS; *SLUDGE CONDITIONING; *WATER TREATMENT

DESCRIPTIVE NOTE: 112P. PRICE: $9.10 MEMBERS; $12.55 NONMEMBERS

ABSTRACT: THIS IS A COLLECTION OF SIX PAPERS PRESENTED AT THE AWWA ANNUAL CONFERENCE IN LAS VEGAS, NEV., ON JUN. 5-9, 1983. INCLUDED ARE THE FOLLOWING PAPERS: (1) POLYMERS IN SLUDGE CONDITIONING; (2) USE OF POLYMERS IN THE COAGULATION PROCESS; (3) SYSTEM DESIGN FOR POLYMER USE; (4) FATE OF POLYMERS IN THE TREATMENT PROCESS; (5) MECHANISMS OF PARTICLE DESTABILIZATION FOR POLYMERS IN WATER TREATMENT; AND (6) SYNTHESIS AND PROPERTIES OF POLYMERS USED IN WATER TREATMENT.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, DATA PROCESSING DEPARTMENT, 6666 W. QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW010932

PUBLICATION DATE: 83

TITLE: INNOVATIVE FILTRATION TECHNIQUES.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *DRINKING WATER; *FILTRATION; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 192P. PRICE: $11.05 MEMBERS; $15.20 NONMEMBERS

ABSTRACT: THIS SEMINAR PROCEEDINGS HIGHLIGHTS AN ASSORTMENT OF WATER FILTRATION TECHNIQUES, FROM CENTURY-OLD SLOW SAND FILTRATION TO THE LATEST IN OZONATION. THE PAPERS INCLUDED IN THIS BOOK WERE PRESENTED AT THE 1983 AWWA ANNUAL CONFERENCE IN LAS VEGAS, NEV. TOPICS PRESENTED INCLUDE: (1) THE RE-EMERGENCE OF SLOW SAND FILTRATION; (2) PRINCIPLES AND USE OF LOW HEAD FILTERS; (3) FILTRATION TECHNIQUES FOR SMALL UTILITIES; (4) OZONE-DIRECT FILTRATION; AND (5) DECLINING-RATE FILTERS. AUTHORED BY WELL-KNOWN EXPERTS IN THE FIELD OF WATER FILTRATION, ALL PAPERS INCLUDED IN THIS PUBLICATION FOCUS ON THE PRACTICAL APPLICATIONS OF INNOVATIVE FILTRATION RATHER THAN ITS THEORETICAL ASPECTS. NUMEROUS ILLUSTRATIONS, CHARTS AND TABLES ARE INCLUDED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, DATA PROCESSING DEPARTMENT, 6666 W. QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW010933

PUBLICATION DATE: 83

TITLE: UNCERTAINTY AND FORECASTING OF WATER QUALITY.

PERSONAL AUTHOR: BECK, M. B.; VAN STRATEN, G.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CASE STUDIES; *FORECASTING; *MODELS; *MONTE CARLO SIMULATION; *RECURSIVE ESTIMATION; *TIME-SERIES ANALYSIS; *WATER QUALITY

DESCRIPTIVE NOTE: 386P.

ABSTRACT: THIS BOOK PRESENTS APPLICABLE METHODS FOR IDENTIFYING WATER QUALITY MODELS FROM UNCERTAIN EXPERIMENTAL DATA AND FOR ANALYZING PREDICTION-ERROR PROPAGATION. THERE ARE THREE SPECIAL EMPHASES: (1) IDENTIFICATION; (2) THE RELATION BETWEEN IDENTIFICATION AND PRACTICE; AND (3) INTERACTION BETWEEN CASE STUDIES AND METHODOLOGICAL DEVELOPMENT. TOPICS DISCUSSED INCLUDE RECURSIVE ESTIMATION, TIME-SERIES ANALYSIS, AND THE USE OF MONTE CARLO SIMULATION IN THE GENERATION OF SPECULATIVE HYPOTHESES.

AVAILABILITY: SPRINGER-VERLAG NEW YORK INC., P. O. BOX 2485 SECAUCUS, NJ 07094

IRIS ACCESSION NUMBER: EW010940

PUBLICATION DATE: 83

TITLE: ANALYSIS AND CHEMISTRY OF WATER POLLUTANTS.

PERSONAL AUTHOR: FREI, R. W.; BRINKMAN, U. A. TH.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *CONFERENCE PROCEEDINGS; *ORGANIC COMPOUNDS; *POLICIES; *POLLUTION; *RESEARCH; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 290P. PRICE: $49.50

ABSTRACT: THIS BOOK IS A SELECTION OF PAPERS PRESENTED AT THE 12TH ANNUAL SYMPOSIUM ON THE ANALYTICAL CHEMISTRY OF POLLUTANTS HELD IN AMSTERDAM,THE NETHERLANDS, IN APRIL 1982. WATER POLLUTION WAS THE MAIN TOPIC OF THE SYMPOSIUM; THERE WAS A SPECIAL FOCUS ON ORGANIC POLLUTANTS. THE SYMPOSIUM WAS SPONSORED BY THE INTERNATIONAL ASSOCIATION OF ENVIRONMENTAL ANALYTICAL CHEMISTRY IN COOPERATION WITH THE ROYAL DUTCH CHEMICAL SOCIETY. THEIR GOAL WAS TO PROMOTE AN INTERDISCIPLINARY APPROACH. THUS THERE ARE PAPERS ON POLICY MATTERS AND TESTING PROCEDURES FOR MUTAGENIC POLLUTANTS IN ADDITION TO STRAIGHT-FORWARD TECHNICAL MATERIAL.

AVAILABILITY: THE FREE UNIVERSITY, AMSTERDAM (EDS.), GORDAN AND BREACH PUBLISHERS, INC., 50 WEST 23 STREET, NEW YORK, NY 10010

IRIS ACCESSION NUMBER: EW010941

PUBLICATION DATE: 83

TITLE: CHESAPEAKE WATERS, POLLUTION, PUBLIC HEALTH, AND PUBLIC OPINION.

PERSONAL AUTHOR: CAPPER, JOHN; AND OTHERS

DESCRIPTOR: BIOLOGY; CHEMICALS; *CHESAPEAKE BAY; *ECOLOGY; *HISTORY; *PUBLIC HEALTH; *POLLUTION; *PUBLIC OPINION; *REGULATIONS

DESCRIPTIVE NOTE: 214P. PRICE: $19.95

ABSTRACT: A HISTORY OF THE CHESAPEAKE BAY AND HOW IT IS USED IS PRESENTED, ALONG WITH CHEMICAL AND BIOLOGICAL ANALYSIS OF THE CHANGES IN ITS ECOSYSTEM SINCE COLONIAL TIMES. REGULATIONS REGARDING THE USE OF THE BAY ARE EXPLAINED-THE FIRST PUBLIC HEALTH CONCERNS DATA FROM COLONIAL TIMES-AND TODAY'S COMPLICATED BUREAUCRACY REGULATING THE WHOLE BAY SYSTEM IS MADE CLEAR. PERSISTANT THREATS TO THE BAY ARE ANALYZED.

AVAILABILITY: TIDEWATER PUBLISHERS, BOX 456, CENTREVILLE, MD 21617

IRIS ACCESSION NUMBER: EW010942

PUBLICATION DATE: 83

TITLE: CONTROL OF ORGANIC SUBSTANCES IN WATER AND WASTEWATER.

PERSONAL AUTHOR: BERGER, BERNARD B.

DESCRIPTOR: *CHEMICALS; *ORGANIC COMPOUNDS; *TECHNOLOGY; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 459P.

ABSTRACT: THIS BOOK FOCUSES ON THE PRIORITY ORGANIC POLLUTANTS, ON WAYS TO MAKE THE MOST EFFICIENT USE OF TREATMENT TECHNOLOGIES, AND ON NEW PROCESSES THAT MAY BE USED IN THE FUTURE. THE STATUS REPORT PRESENTED BY THIS MONOGRAPH COULD BE VIEWED AS AN AUDIT OF 1980 CONCEPTS IN CONTENDING WITH SYNTHETIC ORGANIC POLLUTANTS, AS WELL AS AN INDICATOR OF THE PROBABLE TECHNOLOGIES OF THE FUTURE.

AVAILABILITY: U. S. ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, DC 20460

IRIS ACCESSION NUMBER: EW010943

PUBLICATION DATE: 83

TITLE: DRILLING DISCHARGES IN THE MARINE ENVIRONMENT.

DESCRIPTOR: *DRILLING DISCHARGES; *MARINE ENVIRONMENT; *OIL DRILLING; *OIL; *POLLUTION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 180P.

ABSTRACT: CONTROVERSY OVER THE DISCHARGE OF WASTES GENERATED IN DRILLING OIL AND GAS WELLS ON THE OUTER CONTINENTAL SHELF LED THE BUREAU OF LAND MANAGEMENT TO CALL FOR A CRITICAL REVIEW OF THE SUBJECT. THE NATIONAL RESEARCH COUNCIL FORMED THE PANEL ON ASSESSMENTS OF FATES AND EFFECTS OF DRILLING FLUIDS AND CUTTINGS IN THE MARINE ENVIRONMENT. THEIR GOAL WAS TO ESTABLISH A CREDIBLE TECHNICAL BASIS FOR DECISIONS ABOUT THE DISCHARGES. THEIR REPORT AND CONCLUSIONS ARE PRESENTED.

AVAILABILITY: NATIONAL RESEARCH COUNCIL, NATIONAL ACADEMY PRESS, WASHINGTON, DC.

IRIS ACCESSION NUMBER: EW010944

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL REGULATION OF INDUSTRIAL PLANT SITING: HOW TO MAKE IT WORK BETTER.

PERSONAL AUTHOR: DUERKSEN, CHRISTOPHER J.

DESCRIPTOR: *CASE STUDIES; *ENVIRONMENTAL IMPACT; *FACILITIES; *INDUSTRIAL PLANTS; *INDUSTRIES; *LAND USE; *POLLUTION; *POLLUTION CONTROL; *REGULATIONS; *SITE SELECTION; *SITING

DESCRIPTIVE NOTE: PRICE: $15.00

ABSTRACT: THE CONSERVATION FOUNDATION BEGAN A STUDY IN 1979 OF THE EXTENT TO WHICH ENVIRONMENTAL LAND-USE LAWS INFLUENCE THE SITING OF LARGE INDUSTRIAL FACILITIES, AND TO EXPLORE WAYS TO EXPEDITE SITING DECISIONS WHILE MAINTAINING ENVIRONMENTAL STANDARDS. THE RESEARCH IS BASED ON STATISTICAL ANALYSES, INTERVIEWS, AND CASE STUDIES. ORGANIZED IN THREE PARTS, THE BOOK COVERS THE HISTORY OF SITING REGULATIONS AND HOW THEY CHANGED IN THE SEVENTIES, THE IMPACT OF REGULATIONS ON COMPETITION AND EFFICIENCY, AND AN ASSESSMENT OF VARIOUS ATTEMPTS TO REFORM THE SYSTEM.

AVAILABILITY: THE CONSERVATION FOUNDATION, 1717 MASSACHUSETTS AVENUE, N. W., WASHINGTON, DC 20036

IRIS ACCESSION NUMBER: EW010945

PUBLICATION DATE: 83

TITLE: HAZARDOUS WASTE LAND TREATMENT.

PERSONAL AUTHOR: BROWN, KIRK W.; AND OTHERS

DESCRIPTOR: *DESIGN; *FACILITIES; *HAZARDOUS WASTES; INSTRUCTIONAL MATERIALS; *LAND TREATMENT; *MANAGEMENT; *MONITORING; *PLANNING; POSTSECONDARY EDUCATION; *POLLUTION CINTROL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 692P. PRICE: $39.95

ABSTRACT: LAND TREATMENT IS COMMONLY KNOWN BUT LITTLE UNDERSTOOD. IN GENERAL, ORGANIC WASTES MAY BE EFFECTIVELY DEGRADED AND INORGANIC CONSTITUENTS IMMOBILIZED WHILE ASSOCIATED ENVIRONMENTAL LIABILITIES REMAIN LOW. TO MAINTAIN THESE POSITIVE QUALITIES, LAND TREATMENT MUST BE RECOGNIZED AS AN INTENSIVE AND DYNAMIC PROCESS. CAREFUL PLANNING AND MANAGEMENT SHOULD FOCUS ON VARYING TREATMENT CONDITIONS. THIS BOOK EXPLAINS THE FACTORS INVOLVED IN DESIGNING, OPERATING AND MONITORING LAND TREATMENT UNITS FROM INITIAL SITE SELECTION AND WASTE CHARACTERIZATION THROUGH FACILITY DESIGN, OPERATION, AND CLOSURE.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 10 TOWER OFFICE PARK, WOBURN, MA 01801

IRIS ACCESSION NUMBER: EW010946

PUBLICATION DATE: 83

TITLE: HEAVY METAL POLLUTION, ANNOTATED BIBLIOGRAPHY.

PERSONAL AUTHOR: JARVIS, P. J.

DESCRIPTOR: *BIBLIOGRAPHIES; ENVIRONMENTAL IMPACT; *HEAVY METALS; ECOLOGY; *METALS; *POLLUTION; *POLLUTION CONTROL; TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 420P. PRICE: $25.00

ABSTRACT: THIS BIBLIOGRAPHY COVERS LITERATURE ON HEAVY METAL POLLUTION PUBLISHED BETWEEN 1976 AND 1980, INCLUSIVE. IT PARTICULARLY REFERS TO MATERIAL ON THE ENVIRONMENTAL, ECOLOGICAL AND BEHAVIORAL NATURE AND CONSEQUENCE OF HEAVY METAL POLLUTION, BUT OTHER GERMANE PUBLICATIONS ARE INCLUDED. DIFFERENT SOURCES PROVIDE DIFFERENT DEFINITIONS OF THE TERM "HEAVY METAL;" FOR THE PURPOSES OF THIS BIBLIOGRAPHY A PRAGMATIC DECISION WAS MADE AS TO WHAT TO INCLUDE AND WHAT TO EXCLUDE. THE AUTHOR FOCUSES ON THOSE 19 METALS THAT HAVE A SPECIFIC GRAVITY OF 4.5 OR HIGHER AND WHICH ARE GENERALLY CONSIDERED TO BE OF SUFFICIENT ENVIRONMENTAL DISTRIBUTION TO BE ENVIRONMENTALLY OR BIOLOGICALLY SIGNIFICANT AS TOXIC SUBSTANCES.

AVAILABILITY: GEO BOOKS, LTD., REGENCY HOUSE, 34 DUKE STREET, NORWICH NR3 3AP ENGLAND

IRIS ACCESSION NUMBER: EW010947

PUBLICATION DATE: 83

TITLE: PLANNING AND POLLUTION.

PERSONAL AUTHOR: MILLER, CHRISTOPHER; WOOD, CHRISTOPHER

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *LAND USE; *LEGISLATION; *POLICIES; *PLANNING; *POLLUTION; *POLLUTION CONTROL; *REGULATIONS

DESCRIPTIVE NOTE: 232P. PRICE: $32.50

ABSTRACT: THIS BOOK EXAMINES THE ROLE OF LAND USE PLANNING IN THE CONTROL OF ENVIRONMENTAL POLLUTION. IT IS CONCERNED PRIMARILY WITH THE PRACTICES OF LOCAL PLANNING AUTHORITIES IN USING THEIR LEGAL POWERS TO MINIMIZE THE DISCHARGE OF POLLUTANTS AND TO LIMIT THEIR EFFECTS ON THE ENVIRONMENT. THE NATURE OF THESE LEGAL POWERS (THE UTILIZATION OF WHICH VARIES SUBSTANTIALLY ACCORDING TO THE TYPE OF POLLUTION INVOLVED: AIR, WATER, LAND AND NOISE) IS EXPLAINED. IN ADDITION, THE BOOK EXPLORES THE RELATIONSHIPS THAT HAVE DEVELOPED BETWEEN THE PLANNING AUTHORITIES AND OTHER BODIES THAT HAVE STATUTORY POWERS TO CONTROL POLLUTION. THE BOOK IS A DISTILLATION OF A FOUR-VOLUME REPORT OF A RESEARCH PROGRAM, FINANCED BY THE SOCIAL SCIENCE RESEARCH COUNCIL AND CARRIED OUT BETWEEN 1977 AND 1980, AT THE POLLUTION RESEARCH UNIT FOR THE UNIVERSITY OF MANCHESTER.

AVAILABILITY: OXFORD UNIVERSITY PRESS, WALTON STREET, OXFORD OXC 6DP, ENGLAND

IRIS ACCESSION NUMBER: EW010948

PUBLICATION DATE: 83

TITLE: THE POLLUTION CONTROL POLICY OF THE EUROPEAN

COMMUNITIES.
DESCRIPTOR: *COSTS; *EUROPE; *GOVERNMENT ROLE; *INTERNATIONAL PROBLEMS; *MANAGEMENT; *PLANNING; *POLICIES; *POLLUTION CONTROL; *POLLUTION

DESCRIPTIVE NOTE: PRICE: $18.00 PLUS POSTAGE.

ABSTRACT: THE BOOK STRESSES TWO FUNDAMENTAL CONCERNS: POLLUTER RESPONSIBILITIES FOR POLLUTION PREVENTION COST AND FOR ELIMINATION OF POLLUTION. IMPORTANT ISSUES IN POLLUTION CONTROL ARE ANALYZED IN DETAIL, AND AN ACCOUNT OF EVOLVING POLICIES IS PRESENTED. THE FIRST EDITION OF THIS BOOK WAS PUBLISHED IN 1979; THIS NEW VOLUME HAS BEEN COMPLETELY REVISED TO COVER ALL NEW LEGISLATION AND CHANGES SINCE 1979.

AVAILABILITY: GRAHAM & TROTMAN, LTD., STERLING HOUSE, 66
IDE, ENGLAND

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*FLUID MECHANICS	(1)	EW010739		
*FLUIDS	(1)	EW010744		
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*FOODS	(1)	EW010764		
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*FORESTRY	(1)	EW010466		
*FRESH WATER	(1)	EW010548		
*FRESHWATER	(1)	EW010846		
*FRESHWATER ORGANISMS	(1)	EW010483		
*FUEL	(1)	EW010704		
*FUELS	(1)	EW010699		
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*GARBAGE	(1)	EW010759		
*GAS	(1)	EW010873		
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*GEOLOGY	(1)	EW010390		
*GEORGIA	(1)	EW010486		
*GOVERNMENT ROLE	(1)	EW010948		

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*GREAT LAKES	(6)	EW010526	EW010528	EW010529	EW010530	EW010531	EW010532	
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*GRINDER PUMPS	(1)	EW010688						
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GROUNDWATER	(2)	EW010554	EW010870					
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*HAZARDOUS WASTES	(6)	EW010552	EW010776	EW010797	EW010798	EW010924	EW010945	
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	EW010747	EW010817						
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*HEALTH SCIENCES	(1)	EW010535						
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*HYDROGEN SULFIDE (1) EW010898

HYDROLOGISTS (1) EW010724

*HYDROLOGY (6) EW010390 EW010540 EW010556 EW010721 EW010722 EW010852

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*ILLINOIS (4) EW010669 EW010671 EW010892 EW010908

*IMPLEMENTATION (1) EW010703

*INCINERATORS (1) EW010799

*INDEXES (1) EW010817

*INDIRECT CROSS CONNECTIONS (1) EW010907

*INDIVIDUALIZED INSTRUCTION (2) EW010735 EW010746

*INDUSTRIAL CONTROL (1) EW010728

*INDUSTRIAL PLANTS (1) EW010944

*INDUSTRIAL POLLUTION (1) EW010714

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*INSPECTION (3) EW010540 EW010727 EW010781

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*INSTITUTIONAL REQUIREMENTS (1) EW010478

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*ION EXCHANGE RESINS (2) EW010837 EW010838

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*IRRADIATION (1) EW010856

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*JOINT PROJECT DEVELOPMENT (1) EW010884

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*METAL FINISHING INDUSTRIES (1) EW010692
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*NEW YORK                     (2)       EW010378  EW010898

*NIGHT SOIL                   (1)       EW010472

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*NORTH CAROLINA               (1)       EW010683

*NUCLEAR WASTES               (1)       EW010756

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*OCEANOGRAPHY                 (3)       EW010761  EW010762  EW010857
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*PRIORITY POLLUTANTS (2) EW010483 EW010493
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*RESEARCH PROJECTS (1) EW010864
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*RESPONSIBILITIES (1) EW010793
*RETURN FLOWS (1) EW010679
*RISK (1) EW010841
*RISK ANALYSIS (1) EW010752
*RISK ASSESSMENT (1) EW010819
*RIVER BASINS (1) EW010557
*RIVERS (2) EW010557 EW010558
*RURAL AREAS (3) EW010473 EW010814 EW010884
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SALARIES (1) EW010882
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*SAMPLING PROCEDURES (1) EW010460
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*SCALE-UP (2) EW010739 EW010741
*SCIENCE EDUCATION (3) EW010533 EW010534 EW010535
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*SEASONAL EFFECTS (1) EW010911
*SECONDARY SCHOOL SCIENCE (1) EW010500
*SECONDARY TREATMENT (3) EW010462 EW010463 EW010878
*SEDIMENTS (1) EW010762
*SENSING DEVICES (1) EW010746
*SEPTIC TANKS (2) EW010742 EW010743
*SEWAGE (4) EW010491 EW010711 EW010759 EW010764
*SEWAGE PIPES (1) EW010780
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*SEWER SYSTEMS (1) EW010896

*SHELLFISH (1) EW010857

*SHORELINES (1) EW010690

*SIMULATIONS (1) EW010701

*SITE REHABILITATION (1) EW010852

*SITE SELECTION (1) EW010944

*SITING (1) EW010944

*SLIDES (1) EW010769

*SLIP-LINING (1) EW010905

*SLUDGE (15) EW009269 EW009270 EW010466 EW010490 EW010494 EW010671 EW010704 EW010725 EW010729 EW010759 EW010764 EW010795 EW010823 EW010853 EW010927

SLUDGE (1) EW010870

*SLUDGE CONDITIONING (1) EW010930

*SLUDGE DEWATERING (1) EW010796

SLUDGE DISPOSAL (1) EW009270

*SLUDGES (1) EW010860

*SLUDGE SAMPLER (1) EW010490

*SLUDGE TREATMENT (1) EW010898

*SMALL SYSTEMS (5) EW010482 EW010489 EW010695 EW010771 EW010814

*SMOKE TESTING (1) EW010896

*SNOW MOUNTAIN AGENT (1) EW010716

*SOIL (2) EW010549 EW010847

*SOIL ADSORPTION (1) EW010847

*SOIL CHEMISTRY (1) EW010847

*SOIL PERCOLATION (1) EW010544

*SOILS (2) EW010742 EW010750

*SOLAR HEAT (1) EW010671

*SOLID WASTES (5) EW009269 EW010704 EW010738 EW010765 EW010817

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*STABILIZATION PONDS (1) EW010465

*STAFF DEVELOPMENT (1) EW010387

*STANDARDS (6) EW010529 EW010541 EW010559 EW010692 EW010734 EW010752

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*STATE PROGRAMS (1) EW010486

*STATE ROLE (2) EW010770 EW010819

*STATES (1) EW010559

*STATISTICS (1) EW010488

*STORM RUNOFF (1) EW010779

*STORM SEWERS (1) EW010907

STORMWATER (1) EW010477

*STREAMS (2) EW010468 EW010785

*STRIP MINING (1) EW010852

*SULFUR (1) EW010549

*SUPERVISION (1) EW010736

*SUPPLIERS (1) EW010675

*SURFACE PREPARATION (1) EW010670

*SURFACE RUNOFF (4) EW010693 EW010706 EW010779 EW010785

*SURFACE WATER (2) EW010556 EW010852

SURFACE WATER (1) EW010554

*SURVEYS (5) EW010390 EW010462 EW010463 EW010690 EW010892

*SWIMMING POOLS (1) EW010694

*SYSTEMS APPROACH (1) EW010724

*TANKS (1) EW010670

TANKS (1) EW010901

*TASTES (2) EW010789 EW010885

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*TEACHING GUIDES (1) EW010664

*TEACHING METHODS (2) EW010537 EW010538

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*TEST PROCEDURES (1) EW010875

*THEORY (1) EW010541

*TILT SENSING (1) EW010667

*TIME-SERIES ANALYSIS (1) EW010933

*TOXIC CHEMICALS (1) EW010530

*TOXICITY TESTING (1) EW010818

*TOXICOLOGY (4) EW010495 EW010496 EW010832 EW010833

TOXICOLOGY (1) EW010528

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*TRACTORS (1) EW010497

*TRAINING (7) EW010387 EW010478 EW010537 EW010663 EW010664 EW010665 EW010735

*TRAINING AIDS (1) EW010387

*TRANSPORT (1) EW010819

*TRANSPORTATION SERVICES (1) EW010782

*TRENDS (2) EW010677 EW010721

*TRICKLING FILTERS (1) EW010464

*TROUBLESHOOTING (1) EW010771

*TURBIDITY (2) EW010548 EW010788

*ULTRASONIC METHODS (1) EW010777

*ULTRAVIOLET LIGHT (2) EW010482 EW010680

*UNDERGRADUATE STUDY (2) EW010721 EW010722

*UNITED STATES (4) EW010488 EW010533 EW010534 EW010535

UNITED STATES (1) EW010526

*UNIT OPERATION (1) EW010739

*UNIT OPERATIONS (1) EW010741

*UNIT PROCESSES (1) EW010715
*UNSTEADY FLOW (1) EW010737
*URANIUM (1) EW010875
*URBAN AREAS (3) EW010693 EW010884 EW010893
*UTILITIES (2) EW010683 EW010685
*VACUUM FILTRATION (1) EW010927
*VIDEOCASETTES (1) EW010546
*VIDEOCASSETTES (1) EW009546
*VIRAL GASTROENTERITIS (1) EW010716
*VIRUSES (7) EW010494 EW010707 EW010716 EW010733 EW010764 EW010768 EW010828
*VIRUS INDICATORS (1) EW010768
*VISUAL AIDS (1) EW010678
*VOLATILE ORGANICS (1) EW010708
*WASHINGTON (1) EW010791
*WASTE CHARACTERISTICS (1) EW010871
*WASTE DISCHARGERS (1) EW010770
*WASTE DISPOSAL (37) EW009270 EW010464 EW010466 EW010471 EW010472 EW010473 EW010474
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*WASTEWATER SYSTEMS (1) EW010901
*WASTEWATER TREATMENT (84) EW009267 EW009268 EW009269 EW009270 EW009546 EW010461 EW010462
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WASTEWATER TREATMENT	(1)	EW010472
*WATER	(7)	EW010460 EW010549 EW010760 EW010817 EW010837 EW010838 EW010911
*WATER ANALYSIS	(1)	EW010828
*WATER ASSESSMENT	(1)	EW010703
*WATER AUDITS	(1)	EW010891
*WATERBORNE DISEASES	(2)	EW010488 EW010677
*WATER CHARACTERISTICS	(1)	EW010543
*WATER CONSERVATION	(2)	EW010891 EW010895
*WATER DEMAND	(1)	EW010895
*WATER DISTRIBUTION	(9)	EW010382 EW010499 EW010677 EW010683 EW010689 EW010790 EW010886 EW010891 EW010900
WATER DISTRIBUTION	(1)	EW010771
*WATER HYACINTHS	(2)	EW010877 EW010880
*WATER METERS	(1)	EW010910
*WATER PIPES	(2)	EW010886 EW010900
*WATER POLLUTION	(5)	EW010485 EW010752 EW010764 EW010852 EW010857
*WATER POLLUTION CONTROL	(24)	EW010476 EW010493 EW010496 EW010696 EW010698 EW010701 EW010714 EW010732 EW010747 EW010752 EW010755 EW010761 EW010762 EW010767 EW010792 EW010793 EW010799 EW010800 EW010819 EW010829 EW010846 EW010940 EW010942 EW010943
WATER POLLUTION CONTROL	(2)	EW010464 EW010870
*WATER QUALITY	(52)	EW010390 EW010460 EW010485 EW010493 EW010496 EW010526 EW010528 EW010529 EW010530 EW010531 EW010532 EW010543 EW010544 EW010546 EW010547 EW010554 EW010555 EW010556 EW010558 EW010559 EW010677 EW010686 EW010689 EW010693 EW010718 EW010721 EW010732 EW010747 EW010750 EW010764 EW010765 EW010768 EW010770 EW010774 EW010775 EW010783 EW010784 EW010785 EW010786 EW010787 EW010789 EW010792 EW010819 EW010827 EW010832 EW010833 EW010840 EW010858 EW010875 EW010889 EW010933 EW010942
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*WATER RATES	(4)	EW010480 EW010689 EW010815 EW010929
*WATER RECLAMATION	(1)	EW010487
*WATER RESOURCES	(31)	EW010382 EW010390 EW010480 EW010486 EW010526 EW010529 EW010540 EW010555 EW010557 EW010558 EW010696 EW010700 EW010703 EW010721 EW010722

EW010723 EW010724 EW010732 EW010740 EW010750 EW010751 EW010766 EW010774 EW010775 EW010792 EW010793 EW010834 EW010884 EW010892 EW010893 EW010894

WATER RESOURCES (3) EW010464 EW010554 EW010895

*WATER REUSE (3) EW010476 EW010487 EW010733

*WATERSHEDS (1) EW010783

*WATER STORAGE (2) EW010540 EW010553

WATER STORAGE (1) EW010771

*WATER SUPPLY (33) EW010382 EW010471 EW010472 EW010474 EW010478 EW010480 EW010488 EW010553 EW010555 EW010677 EW010695 EW010702 EW010716 EW010719 EW010723 EW010724 EW010733 EW010781 EW010783 EW010784 EW010785 EW010786 EW010787 EW010790 EW010792 EW010793 EW010815 EW010867 EW010884 EW010886 EW010893 EW010895 EW010929

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*WATER SYSTEMS (2) EW010695 EW010901

*WATER TANKS (1) EW010670

WATER TANKS (1) EW010901

*WATER TREATMENT (24) EW010476 EW010482 EW010666 EW010677 EW010683 EW010689 EW010694 EW010695 EW010707 EW010715 EW010733 EW010741 EW010764 EW010771 EW010786 EW010787 EW010788 EW010789 EW010790 EW010883 EW010885 EW010930 EW010932 EW010942

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*WATER UTILITIES (5) EW010782 EW010814 EW010815 EW010867 EW010929

*WEATHER MODIFICATION (1) EW010555

*WELLS (1) EW010835

WELLS (1) EW010901

*WETLANDS (2) EW010556 EW010831

WILDLIFE (1) EW010531

*WINERIES (1) EW010854

*WISCONSIN (1) EW010684

*WORLD PROBLEMS (3) EW010476 EW010498 EW010723